



Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
This SDS is for generic information purposes and does not reflect required country specific information for OEL

CLEANER 14
Supersedes Date: 08-Sep-2017

Revision Date 25-May-2018
Revision Number 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name	CLEANER 14
Pure substance/mixture	Substance
EC No	201-159-0
CAS No	78-93-3
REACH Registration Number	01-2119457290-43-XXXX
Chemical Name	butanone

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use	Solvent mixture.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company Name
Bostik Benelux SA-NV
Meulestedekaai 86
B-9000 Gent, Belgium
Tel: +32 (9) 255 1717
Fax: +32 (9) 255 1701

E-mail address	SDS.box-EU@bostik.com
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1.4. Emergency telephone number

Emergency Telephone	No information available
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Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Flammable liquids	Category 2 - (H225)

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2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains : Methyl ethyl ketone



Signal Word

DANGER

Hazard statements

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Special provisions concerning the labelling of certain mixtures

EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves and eye/face protection

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P235 - Keep cool

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires tactile warnings if supplied to the general public

2.3. Other Hazards

General Hazards

In use may form flammable/explosive vapour-air mixture.

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

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Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Methyl ethyl ketone	201-159-0	78-93-3	80 - 100	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)		01-2119457290-43-XXXX

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

3.2. Mixtures

Not applicable

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air.
Skin Contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
Eye contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor immediately.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container

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or label.

Self-Protection of the First Aider Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use CO₂, dry chemical, or foam.

Unsuitable Extinguishing Media
Use water spray or fog; do not use straight streams

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions
Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

Water spray may reduce vapour; but may not prevent ignition in closed spaces.

For emergency responders
Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

6.3. Methods and material for containment and cleaning up

Methods for Containment	Dyke far ahead of spill; use dry sand to contain the flow of material. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Methods for cleaning up	Use clean non-sparking tools to collect absorbed material. Dyke far ahead of spill for later disposal.

6.4. Reference to other sections

Reference to other sections	See Section 12: ECOLOGICAL INFORMATION Section 7: HANDLING AND STORAGE Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
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Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static charges. Use explosion-proof electrical/ ventilating/ lighting/ equipment.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep only in the original container/package in a cool well-ventilated place.

7.3. Specific end use(s)

Other Information

Recommendation(s). Observe technical data sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical Name	European Union
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield.

Skin and Body Protection Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.

Environmental Exposure Controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid
Colour Colourless
Odour No information available
Odour Threshold No information available

Property	Values	Remarks • Method
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	= 79 °C / 174.2 °F	
Flash Point	= -9 °C / 15.8 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	Not applicable for liquids
Flammability Limit in Air		
Upper flammability limit:	No information available	

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Lower flammability limit	No information available
Vapour Pressure	No information available
Vapour Density	No information available
Relative Density	No information available
Water Solubility	No information available
Solubility in Other Solvents	No information available
Partition Coefficient	No information available
Autoignition Temperature	515 °C / 959 °F
Decomposition Temperature	No information available
Explosive Properties	No information available
Explosive Limits	No information available
Upper	No information available
Lower	No information available
Oxidising Properties	No information available
Kinematic Viscosity	No information available
Dynamic Viscosity	No information available

9.2. Other information

Softening Point	No information available
Molecular Weight	No information available
Solvent content (%)	No information available
Solid content (%)	No information available
Density	0.8 g/ml
Bulk Density	No data available
VOC content (%)	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	May be ignited by friction, heat, sparks or flames.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

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None under normal processing.

10.4. Conditions to avoid

Keep away from heat, sparks and flames.

10.5. Incompatible materials

Strong acids and bases.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

No information or data specific to the product on this toxicological (health) effect is available.

Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.
Sensitisation	No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation	Not applicable.
Serious eye damage/eye irritation	Not applicable.
Sensitisation	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Carcinogenicity	Not applicable.

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Reproductive Toxicity No information available.

STOT - Single Exposure No information available.

STOT - Repeated Exposure No information available.

Target Organ Effects Central nervous system, Eyes, Respiratory system, Skin.

Aspiration hazard No information available.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

Component Information

Toxicity Data No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl ethyl ketone 78-93-3	= 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity No information available

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea	M-Factor
Methyl ethyl ketone 78-93-3	EC50=1972 mg/l (Pseudokirchneriella subcapitata)	LC50 96 h 3130 - 3320 mg/L (Pimephales promelas flow-through)	EC50 48 h > 308 mg/L (Daphnia magna)	

12.2. Persistence and degradability

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No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Other Information Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

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ADR

14.1 UN/ID no	UN1193
14.2 Proper Shipping Name	Ethyl methyl ketone
14.3 Transport hazard class(es)	3
Labels	3
14.4 Packing Group	II
Description	UN1193, Ethyl methyl ketone, 3, II
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None
Classification Code	F1
Tunnel restriction code	(D/E)
Limited Quantity (LQ)	1 L
ADR Hazard Id (Kemmler Number)	33

IMDG

14.1 UN Number	UN1193
14.2 Proper Shipping Name	Ethyl methyl ketone
14.3 Transport hazard class(es)	3
14.4 Packing Group	II
Description	UN1193, Ethyl methyl ketone, 3, II, (-9°C c.c.)
14.5 Marine Pollutant	Np
14.6 Special Provisions	None
Limited Quantity (LQ)	1 L
EmS-No	F-E, S-D
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

RID

14.1 UN Number	UN1193
14.2 Proper Shipping Name	Ethyl methyl ketone
14.3 Transport hazard class(es)	3
14.4 Packing Group	II
Description	UN1193, Ethyl methyl ketone, 3, II
14.5 Environmental Hazard	Not applicable
Classification Code	F1
14.6 Special Provisions	None
Limited Quantity (LQ)	1 L

ICAO (air)

14.1 UN/ID no	UN1193
14.2 Proper Shipping Name	Ethyl methyl ketone
14.3 Hazard Class	3
14.4 Packing Group	II

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Description	UN1193, Ethyl methyl ketone, 3, II
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

IATA

14.1 UN/ID no	UN1193
14.2 Proper Shipping Name	Ethyl methyl ketone
14.3 Transport hazard class(es)	3
14.4 Packing Group	II
Description	UN1193, Ethyl methyl ketone, 3, II
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None
Limited Quantity (LQ)	1 L
ERG Code	3L

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

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Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

or

P5b - FLAMMABLE LIQUIDS

or

P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National Regulations

France

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number
Methyl ethyl ketone 78-93-3	RG 84

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

Flammable liquid (R11), EEC: refer to Annex III No. 1 (fire and explosion hazards) and § 7 paragraph 4

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

15.2. Chemical safety assessment

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No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapour

EUH066 - Repeated exposure may cause skin dryness or cracking

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls and personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

*

Skin designation

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

STOT (RE): Specific target organ toxicity - Repeated exposure

STOT (SE): Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 25-May-2018

Indication of changes

Revision Note Not applicable.

Training Advice Provide adequate information, instruction, and training for operator

Further information No information available

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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Section 1 Exposure Scenario Title	
Title:	
Manufacture of substance	
Use Descriptor	
Sector(s) of Use	SU10, SU3, SU8, SU9
Process Categories	PROC1, PROC15, PROC2, PROC3, PROC4, PROC8a, PROC8b
Environmental Release Categories	ERC1, ERC4
Specific Environmental Release Category	
Processes, tasks, activities covered	
Manufacture of the substance or use as an intermediate, process chemical or extracting agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

General exposures (closed systems) PROC1 No other specific measures identified.

General exposures (closed systems) PROC2 No other specific measures identified.

General exposures (closed systems) PROC3

No other specific measures identified. **General exposures (open systems) PROC4** No other specific measures identified.

Process sampling PROC8b

No other specific measures identified.

Laboratory activities PROC15

No other specific measures identified. **Bulk transfers (open systems) PROC8b** No other specific measures identified. **Bulk transfers (closed systems) PROC8b** No other specific measures identified.

Equipment cleaning and maintenance PROC8a

Drain down and flush system prior to equipment break-in or maintenance.

Storage PROC1

Store substance within a closed system.

Storage PROC2

Store substance within a closed system.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

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Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

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4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Distribution of substance	
Use Descriptor	
Sector(s) of Use	SU3, SU8, SU9
Process Categories	PROC1, PROC15, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
Specific Environmental Release Category	
Processes, tasks, activities covered	
Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading, distribution and associated laboratory activities.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

General exposures (closed systems) PROC1 Handle substance within a closed system. **General exposures (closed systems) PROC2** No other specific measures identified.

General exposures (closed systems) PROC3

No other specific measures identified. **General**

exposures (open systems) PROC4 No other specific measures identified.

Process sampling PROC3

No other specific measures identified.

Laboratory activities PROC15

No other specific measures identified. **Bulk**

transfers (closed systems) PROC8b No other specific measures identified.

Bulk transfers (open systems) PROC8b

No other specific measures identified.

Drum and small package filling PROC9

Fill containers/cans at dedicated fill points supplied with local extract ventilation.

Equipment cleaning and maintenance PROC8a

Apply vessel entry procedures including use of supplied compressed air.

Drain down and flush system prior to equipment break-in or maintenance.

Storage PROC1

No other specific measures identified.

Storage PROC2

No other specific measures identified.

Section 2.2 Control of environmental exposure

Product characteristics

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Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
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3.2. Environment
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4.1. Health

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Risk Management Measures are based on qualitative risk characterisation. [G37]
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable

Section 1 Exposure Scenario Title

Title:

Formulation and (re)packing of substances and mixtures

Use Descriptor

Sector(s) of Use	SU10, SU3
Process Categories	PROC1, PROC14, PROC15, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC2
Specific Environmental Release Category	

Processes, tasks, activities covered

Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product Characteristic

Liquid

Duration, frequency and amount

Covers daily exposures up to 8 hours (unless stated differently)[G2]

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Covers percentage substance in the product up to 100 %[G13]
Other given operational conditions affecting workers exposure
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)
<p>General measures (Flammable Liquid)</p> <p>Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.</p> <p>Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.</p> <p>General exposures (closed systems) PROC1 No other specific measures identified.</p> <p>General exposures (closed systems) PROC2 Handle substance within a closed system.</p> <p>General exposures (closed systems) PROC3 Handle substance within a closed system.</p> <p>General exposures (open systems) PROC4 Provide extract ventilation to points where emissions occur.</p> <p>Batch processes at elevated temperatures Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC3 Handle substance within a closed system.</p> <p>Process sampling PROC3 No other specific measures identified.</p> <p>Laboratory activities PROC15 No other specific measures identified.</p>

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Bulk transfers PROC8b

Handle substance within a closed system.

Mixing operations (open systems) PROC5

Wear a respirator conforming to EN140 with Type A filter or better.

Manual Transfer from/pouring from containers PROC8a Provide extract ventilation to points where emissions occur.

Drum/batch transfers PROC8b

Use drum pumps or carefully pour from container.

Production of preparations or articles by tableting, compression, extrusion, pelettisation PROC14 Wear a respirator conforming to EN140 with Type A filter or better.

Drum and small package filling PROC9

Fill containers/cans at dedicated fill points supplied with local extract ventilation.

Equipment cleaning and maintenance PROC8a

Apply vessel entry procedures including use of supplied compressed air.

Drain down and flush system prior to equipment break-in or maintenance.

Storage PROC1

Store substance within a closed system.

Storage PROC2

Store substance within a closed system.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

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Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36]
 Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable
Section 1 Exposure Scenario Title
Title:
Use in Coatings - Industrial
Use Descriptor

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Sector(s) of Use	SU3
Process Categories	PROC1, PROC10, PROC13, PROC14, PROC15, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC4
Specific Environmental Release Category	ESVOC 4.3a.v1
Processes, tasks, activities covered	
Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

General exposures (closed systems) PROC1 Handle substance within a closed system.

General exposures (closed systems) with sample collection Use in contained systems PROC2 Handle substance within a closed system.

Ensure material transfers are under containment or extract ventilation.

Film formation - force drying, stoving and other technologies Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC2 Handle substance within a closed system.

Ensure material transfers are under containment or extract ventilation.

Mixing operations (closed systems) General exposures (closed systems) PROC3 Handle substance within a closed system.

Ensure material transfers are under containment or extract ventilation.

Film formation - air drying PROC4

Provide extract ventilation to points where emissions occur.

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<p>Preparation of material for application Mixing operations (open systems) PROC5 Provide extract ventilation to points where emissions occur.</p> <p>Spraying (automatic/robotic) PROC7 Carry out in a vented booth provided with laminar airflow.</p> <p>Manual Spraying PROC7 Wear a respirator conforming to EN140 with Type A filter or better. provide a good standard of controlled ventilation (10 to 15 air changes per hour).</p> <p>Material transfers PROC8a Clear transfer lines prior to de-coupling. Provide extract ventilation to material transfer points and other openings.</p> <p>Material transfers PROC8b Clear transfer lines prior to de-coupling.</p> <p>Roller, spreader, flow application PROC10 Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.</p> <p>Dipping, immersion and pouring PROC13 Provide extract ventilation to points where emissions occur. Avoid manual contact with wet work pieces.</p> <p>Laboratory activities PROC15 No other specific measures identified.</p> <p>Material transfers Drum/batch transfers Transfer from/pouring from containers PROC9 Provide extract ventilation to material transfer points and other openings.</p> <p>Production of preparations or articles by tableting, compression, extrusion, pelettisation PROC14 Provide extract ventilation to points where emissions occur.</p>
Section 2.2 Control of environmental exposure
Product characteristics
Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release

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Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment

Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title
Title:

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Use in Cleaning Agents - Industrial	
Use Descriptor	
Sector(s) of Use	SU3
Process Categories	PROC1, PROC10, PROC13, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b
Environmental Release Categories	ERC4
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Automated process with (semi) closed systems Use in contained systems PROC2 Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better.

Automated process with (semi) closed systems Drum/batch transfers PROC3

Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better. **Application of cleaning products in closed systems**

PROC2 Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better.

Filling / preparation of equipment from drums or containers PROC8b

Ensure material transfers are under containment or extract ventilation.

Use in contained batch processes PROC4

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Provide extract ventilation to points where emissions occur.

Degreasing small objects in cleaning station PROC13

Provide extract ventilation to points where emissions occur.

Cleaning with low-pressure washers PROC10

provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better. **Cleaning**

with high pressure washers PROC7 provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better.

Manual Surfaces Cleaning PROC10

provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better.

Storage PROC1

Ensure samples are obtained under containment or extract ventilation.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

Not applicable

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Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health

Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Lubricants - Industrial	
Use Descriptor	
Sector(s) of Use	SU3
Process Categories	PROC1, PROC10, PROC13, PROC17, PROC18, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9

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Environmental Release Categories	ERC4, ERC7
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

General exposures (closed systems) PROC1 Handle substance within a closed system. **General exposures (closed systems) PROC2** Handle substance within a closed system. **General exposures (closed systems) PROC3** Handle substance within a closed system. **General exposures (open systems) PROC4** No other specific measures identified.

Bulk transfers PROC8b

No other specific measures identified.

Filling / preparation of equipment from drums or containers PROC8a Use drum pumps or carefully pour from container.

Filling / preparation of equipment from drums or containers PROC8b Use drum pumps or carefully pour from container.

Initial factory fill of equipment PROC9

Ensure material transfers are under containment or extract ventilation.

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Operation and lubrication of high energy open equipment PROC17 Restrict area of openings to equipment.

Operation and lubrication of high energy open equipment PROC18 No other specific measures identified.

Roller application or brushing PROC10 provide a good standard of controlled ventilation (10 to 15 air changes per hour). **Treatment by dipping and pouring PROC13** Restrict area of openings to equipment. **Spraying PROC7** Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. **Maintenance (of larger plant items) and machine set up PROC8b** Clear transfer lines prior to de-coupling.

Maintenance (of larger plant items) and machine set up Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC8b
Provide extract ventilation to emission points when contact with warm (> 50°C) lubricant is likely.
Wear suitable gloves tested to EN374.

Maintenance of small items PROC8a
Avoid carrying out operation for more than 4 hours.

Remanufacture of reject articles PROC9
Avoid carrying out operation for more than 4 hours.

Storage PROC1
No other specific measures identified.

Storage PROC2
No other specific measures identified.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

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Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]

3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

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Section 1 Exposure Scenario Title	
Title:	
Metal working fluids / rolling oils - Industrial	
Use Descriptor	
Sector(s) of Use	SU3
Process Categories	PROC1, PROC10, PROC13, PROC17, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC4
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the use in formulated MWFs (MWFs)/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	

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Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

**Contributing Scenarios/
Specific Risk Management Measures and Operating Conditions**
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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

General exposures (closed systems) PROC1 Handle substance within a closed system. **General exposures (closed systems) PROC2** Handle substance within a closed system. **General exposures (closed systems) PROC3** Handle substance within a closed system. **General exposures (open systems) PROC4** No other specific measures identified.

Bulk transfers PROC8b

Provide enhanced general ventilation by mechanical means.

Filling / preparation of equipment from drums or containers PROC8b Use drum pumps or carefully pour from container.

Filling / preparation of equipment from drums or containers PROC5 Use drum pumps or carefully pour from container.

Filling / preparation of equipment from drums or containers PROC9

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Use drum pumps or carefully pour from container. Process sampling PROC8b Use dedicated equipment.
Metal machining operations PROC17 Provide extract ventilation to points where emissions occur.
Treatment by dipping and pouring PROC13 Provide enhanced general ventilation by mechanical means.
Spraying PROC7 Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Roller application or brushing PROC10 Provide enhanced general ventilation by mechanical means.
Automated metal rolling/forming Use in contained systems Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC2 Handle substance within a predominantly closed system provided with extract ventilation.
Semi-automated metal rolling/forming Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC17 Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Semi-automated metal rolling/forming PROC4 Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Equipment cleaning and maintenance Dedicated facility PROC8b No other specific measures identified.
Equipment cleaning and maintenance Non-dedicated facility PROC8a Provide enhanced general ventilation by mechanical means.
Storage PROC1 Store substance within a closed system. Transfer via enclosed lines
Storage PROC2 Store substance within a closed system. Transfer via enclosed lines
Section 2.2 Control of environmental exposure
Product characteristics
Not applicable
Duration, frequency and amount
Not applicable

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Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation

3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks

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are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable

Section 1 Exposure Scenario Title

Title:

Use as binders and release agents - Industrial

Use Descriptor

Sector(s) of Use	SU3
Process Categories	PROC1, PROC10, PROC13, PROC14, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8a, PROC8b
Environmental Release Categories	ERC4
Specific Environmental Release Category	ESVOC 4.10a.v1

Processes, tasks, activities covered

Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing) and handling of waste.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product Characteristic

Liquid

Duration, frequency and amount

Covers daily exposures up to 8 hours (unless stated differently)[G2]

Covers percentage substance in the product up to 100 %[G13]

Other given operational conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

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Contributing Scenarios/

Specific Risk Management Measures and Operating Conditions

(only required controls to demonstrate safe use listed)

General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Material transfers PROC1

Transfer via enclosed lines

Material transfers PROC2

Transfer via enclosed lines

Material transfers PROC3

Transfer via enclosed lines

Drum/batch transfers PROC8b

No other specific measures identified.

Mixing operations (closed systems) PROC3 No

other specific measures identified.

Mixing operations (open systems) PROC4 provide a good standard of controlled ventilation (10 to 15 air changes per hour). **Mold forming PROC14**

Provide extract ventilation to points where emissions occur.

Casting operations (open systems) Operation is carried out at elevated temperature (> 20°C above ambient temperature). Aerosol generation due to elevated process temperature PROC6

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Provide extract ventilation to points where emissions occur.

Wear a respirator conforming to EN140 with Type A filter or better.

Spraying Machine PROC7

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

Roller application or brushing PROC10

Provide extract ventilation to points where emissions occur.

Spraying Manual PROC7

Carry out in a vented booth or extracted enclosure.

Storage PROC1

Store substance within a closed system.

Storage PROC2

Store substance within a closed system.

Dipping, immersion and pouring PROC13

Provide extract ventilation to points where emissions occur.

Wear a respirator conforming to EN140 with Type A filter or better.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

Not applicable

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

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Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

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Section 1 Exposure Scenario Title	
Title:	
Use as a fuel - Industrial	
Use Descriptor	
Sector(s) of Use	SU3
Process Categories	PROC1, PROC16, PROC2, PROC3, PROC8a, PROC8b
Environmental Release Categories	ERC7
Specific Environmental Release Category	ESVOC 7.12a.v1
Processes, tasks, activities covered	
Covers the use as a fuel (or fuel additive), and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	

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Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

**Contributing Scenarios/
Specific Risk Management Measures and Operating Conditions**
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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Bulk transfers PROC8b

Clear transfer lines prior to de-coupling.

Drum/batch transfers PROC8b

Use drum pumps or carefully pour from container.

General exposures (closed systems) Use in contained batch processes PROC1 No other specific measures identified.

General exposures (closed systems) Use in contained batch processes PROC2 No other specific measures identified.

General exposures (closed systems) Use in contained batch processes PROC3 No other specific measures identified.

Use as a fuel PROC1

Handle substance within a closed system.

Use as a fuel PROC2

Handle substance within a closed system.

Use as a fuel PROC16

Handle substance within a closed system.

(closed systems) Use as a fuel PROC3

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Handle substance within a closed system.

Equipment cleaning and maintenance PROC8a

Drain down and flush system prior to equipment break-in or maintenance.

Apply vessel entry procedures including use of supplied compressed air.

Storage PROC1

Ensure operation is undertaken outdoors.

Store substance within a closed system.

Transfer via enclosed lines

Storage PROC2

Ensure operation is undertaken outdoors.

Store substance within a closed system.

Transfer via enclosed lines

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

Not applicable

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

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Section 3 Exposure Estimation

3.1. Health

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29]
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]

3.2. Environment

Not applicable

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Available hazard data do not support the need for a DNEL to be established for other health effects.[G36]
Risk Management Measures are based on qualitative risk characterisation. [G37]
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable

Section 1 Exposure Scenario Title

Title:

Functional Fluids - Industrial

Use Descriptor

Sector(s) of Use	SU3
Process Categories	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC7
Specific Environmental Release Category	ESVOC 7.13a.v1

Processes, tasks, activities covered

Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

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Product Characteristic
Liquid
Duration, frequency and amount
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]
Other given operational conditions affecting workers exposure
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Bulk transfers (closed systems) PROC1

Transfer via enclosed lines

Bulk transfers (closed systems) PROC2

Transfer via enclosed lines

Drum/batch transfers PROC8b Use

drum pumps.

Filling of articles/equipment (closed systems) PROC9

Fill containers/cans at dedicated fill points supplied with local extract ventilation. **Filling / preparation of equipment from drums or containers**

PROC8a Provide extract ventilation to material transfer points and other openings.

General exposures (closed systems) PROC2 No

other specific measures identified.

General exposures (closed systems) PROC3 No

other specific measures identified.

General exposures (open systems) PROC4

Provide extract ventilation to points where emissions occur.

General exposures (open systems) Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC4

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Restrict area of openings to equipment. **Remanufacture of reject articles PROC9** No other specific measures identified.

Equipment maintenance PROC8a

Drain down and flush system prior to equipment break-in or maintenance.

Transfer via enclosed lines

Storage PROC1

Store substance within a closed system.

Storage PROC2

Store substance within a closed system.

Section 2.2 Control of environmental exposure

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Product characteristics
Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks

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are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable

Section 1 Exposure Scenario Title

Title:

Use in laboratories - Industrial

Use Descriptor

Sector(s) of Use

SU3

Process Categories

PROC10, PROC15

Environmental Release Categories

ERC2, ERC4

Specific Environmental Release Category

Processes, tasks, activities covered

Use of the substance within laboratory settings, including material transfers and equipment cleaning.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product Characteristic

Liquid

Duration, frequency and amount

Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]

Other given operational conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

Contributing Scenarios/

Specific Risk Management Measures and Operating Conditions

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice. **Laboratory activities PROC15**

No other specific measures identified. **Cleaning**

PROC10

provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Organisation measures to prevent/limit release from site

Not applicable

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

3.1. Health

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29]

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]

3.2. Environment

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Not applicable

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Available hazard data do not support the need for a DNEL to be established for other health effects.[G36]
Risk Management Measures are based on qualitative risk characterisation. [G37]

Section 1 Exposure Scenario Title

Title:

Polymer processing - Industrial

Use Descriptor

Sector(s) of Use	SU10, SU3
Process Categories	PROC1, PROC13, PROC14, PROC2, PROC21, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC4
Specific Environmental Release Category	

Processes, tasks, activities covered

Processing of formulated polymers including material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product Characteristic

Liquid

Duration, frequency and amount

Covers daily exposures up to 8 hours (unless stated differently)[G2]
Covers percentage substance in the product up to 100 %[G13]

Other given operational conditions affecting workers exposure

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Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

**Contributing Scenarios/
Specific Risk Management Measures and Operating Conditions**
(only required controls to demonstrate safe use listed)

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Bulk transfers (closed systems) PROC1 No other specific measures identified. **Bulk transfers (closed systems)**

PROC2 No other specific measures identified.

Bulk transfers PROC8b

No other specific measures identified.

Bulk weighing PROC1

No other specific measures identified.

Bulk weighing PROC2

No other specific measures identified.

Small scale weighing PROC9

Ensure material transfers are under containment or extract ventilation.

Additive premixing PROC3

No other specific measures identified.

Additive premixing PROC4

No other specific measures identified.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

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Additive premixing PROC5

Ensure material transfers are under containment or extract ventilation.

Avoid carrying out activities involving exposure for more than 4 hours.

Bulk transfers PROC9

Handle substance within a closed system.

provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Calendering (including Banburys) Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC6 provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Production of articles by dipping and pouring PROC13 provide a good standard of controlled ventilation (10 to 15 air changes per hour). **Extrusion and masterbatching PROC14**

provide a good standard of controlled ventilation (10 to 15 air changes per

hour). **Injection moulding of articles PROC14** provide a good standard of

controlled ventilation (10 to 15 air changes per hour). **Finishing operations**

PROC21 provide a good standard of controlled ventilation (10 to 15 air changes

per hour). **Equipment maintenance PROC8a**

provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Storage PROC2

Store substance within a closed system.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

Not applicable

Conditions and measures related to municipal sewage treatment plant

Not applicable

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Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Water treatment chemicals - Industrial	
Use Descriptor	
Sector(s) of Use	SU3
Process Categories	PROC1, PROC13, PROC2, PROC3, PROC4, PROC8a, PROC8b
Environmental Release Categories	ERC3, ERC4
Specific Environmental Release Category	
Processes, tasks, activities covered	

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Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems
Section 2 Operational conditions and risk management measures
Section 2.1 Control of worker exposure
Product Characteristic
Liquid
Duration, frequency and amount
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]
Other given operational conditions affecting workers exposure
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Bulk transfers Use in contained systems PROC2 No other specific measures identified. **Drum/batch transfers PROC8b** Use drum pumps.

General exposures (closed systems) PROC3

No other specific measures identified. **General exposures (open systems) PROC4** No other specific measures identified.

Pouring from small containers PROC13

Provide extract ventilation to points where emissions occur.

Equipment maintenance PROC8a

Drain down and flush system prior to equipment break-in or maintenance.

Storage PROC1

Store substance within a closed system.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

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Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Use in Coatings - Professional	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC10, PROC11, PROC13, PROC15, PROC19, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b
Environmental Release Categories	ERC8A, ERC8D

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Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation) and equipment cleaning, maintenance and associated laboratory activities.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

General exposures (closed systems) PROC1 Handle substance within a closed system.

Filling / preparation of equipment from drums or containers Use in contained systems PROC2 Handle substance within a closed system.

General exposures (closed systems) Use in contained systems PROC2 Handle substance within a closed system.

Ensure material transfers are under containment or extract ventilation.

Preparation of material for application Use in contained batch processes PROC3

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. **Film formation - air drying Outdoor. PROC4** Avoid carrying out operation for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.

Film formation - air drying Indoor PROC4

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Provide extract ventilation to points where emissions occur. **Preparation of material for application Indoor PROC5** provide a good standard of controlled ventilation (10 to 15 air changes per hour). or

Wear a respirator conforming to EN140 with Type A filter or better.

Preparation of material for application Outdoor. PROC5

Wear a respirator conforming to EN140 with Type A filter or better.

Material transfers Drum/batch transfers PROC8a provide a good standard of general ventilation Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out operation for more than 1 hour or

Wear a respirator conforming to EN140 with Type A filter or better.

Material transfers Drum/batch transfers Dedicated facility PROC8b

Provide extract ventilation to material transfer points and other openings.

Roller, spreader, flow application Indoor PROC10 provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Roller, spreader, flow application Outdoor. PROC10

Wear a respirator conforming to EN140 with Type A filter or better.

Manual Spraying Indoor PROC11

Carry out in a vented booth or extracted enclosure.

Wear a respirator conforming to EN140 with Type A filter or better.

Manual Spraying Outdoor. PROC11

Wear a respirator conforming to EN140 with Type A filter or better.

Dipping, immersion and pouring Indoor PROC13 Provide extract ventilation to points where emissions occur.

Avoid manual contact with wet work pieces.

Dipping, immersion and pouring Outdoor. PROC13 Ensure operation is undertaken outdoors.

Avoid manual contact with wet work pieces. **Laboratory activities PROC15** provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). **Hand application - finger paints, pastels, adhesives**

Indoor PROC19 provide a good standard of general ventilation Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Wear a respirator conforming to EN140 with Type A filter or better.

Hand application - finger paints, pastels, adhesives Outdoor. PROC19 Ensure operation is undertaken outdoors.

Wear a respirator conforming to EN140 with Type A filter or better.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

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Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

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Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Use in Cleaning Agents - Professional	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC10, PROC11, PROC13, PROC19, PROC2,

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	PROC3, PROC4, PROC8a, PROC8b
Environmental Release Categories	ERC8A, ERC8D
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand).	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Filling / preparation of equipment from drums or containers PROC8b provide a good standard of general ventilation Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out operation for more than 1 hour or

Wear a respirator conforming to EN140 with Type A filter or better.

Automated process with (semi) closed systems Use in contained systems PROC2

Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better.

Automated process with (semi) closed systems Drum/batch transfers Use in contained systems PROC3

Avoid carrying out operation for more than 1 hour

or

Wear a respirator conforming to EN140 with Type A filter or better.

Semi-automated process (e.g.: Semi-automatic application of floor care and maintenance products) PROC4

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provide a good standard of general ventilation Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better.

Filling / preparation of equipment from drums or containers PROC8a

Ensure operation is undertaken outdoors.

Wear a respirator conforming to EN140 with Type A filter or better.

Manual Surfaces Cleaning Dipping, immersion and pouring PROC13

provide a good standard of general ventilation Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Avoid carrying out operation for more than 4 hours.

Manual Surfaces Cleaning PROC13

Wear a respirator conforming to EN140 with Type A filter or better.

Cleaning with low-pressure washers Rolling, Brushing No spraying PROC10 provide a good standard of general ventilation Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Limit the substance content in the mixture to 5 %.

Cleaning with high pressure washers Spraying Indoor PROC11 provide a good standard of general ventilation Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Limit the substance content in the mixture to 1 %.

Cleaning with high pressure washers Spraying Outdoor. PROC11

Limit the substance content in the mixture to 1 %. Avoid carrying out operation for more than 4 hours. or

Wear a respirator conforming to EN140 with Type A filter or better. **Manual Surfaces Cleaning Spraying PROC10** Ensure doors and windows are opened.

Avoid carrying out operation for more than 1 hour

Manual Surfaces Cleaning PROC10

Wear a respirator conforming to EN140 with Type A filter or better.

Ad hoc manual application via trigger sprays, dipping, etc. Rolling, Brushing PROC10 Provide extract ventilation to points where emissions occur.

Limit the substance content in the mixture to 25 %.

Avoid carrying out operation for more than 4 hours.

or

Wear a respirator conforming to EN140 with Type A filter or better.

OR

Limit the substance content in the mixture to 25 %.

Wear a respirator conforming to EN140 with Type A filter or better.

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Application of cleaning products in closed systems Outdoor. PROC4

Avoid carrying out operation for more than 1 hour

or

Wear a respirator conforming to EN140 with Type A filter or better.

Cleaning of medical devices PROC4

Provide extract ventilation to points where emissions occur. Avoid carrying out operation for more than 4 hours.

or

Wear a respirator conforming to EN140 with Type A filter or better.

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Section 2.2 Control of environmental exposure
Product characteristics
Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health

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Available hazard data do not support the need for a DNEL to be established for other health effects.[G36]
Risk Management Measures are based on qualitative risk characterisation. [G37]
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable

Section 1 Exposure Scenario Title

Title:

Use as binders and release agents - Professional

Use Descriptor

Sector(s) of Use	SU22
Process Categories	PROC1, PROC10, PROC11, PROC14, PROC2, PROC3, PROC4, PROC6, PROC8a, PROC8b
Environmental Release Categories	ERC8A, ERC8D
Specific Environmental Release Category	

Processes, tasks, activities covered

Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product Characteristic

Liquid

Duration, frequency and amount

Covers daily exposures up to 8 hours (unless stated differently)[G2]

Covers percentage substance in the product up to 100 %[G13]

Other given operational conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

**Contributing Scenarios/
Specific Risk Management Measures and Operating Conditions**
(only required controls to demonstrate safe use listed)

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Material transfers (closed systems) PROC1

Transfer via enclosed lines

Material transfers (closed systems) PROC2

Transfer via enclosed lines

Material transfers (closed systems) PROC3

Transfer via enclosed lines

Drum/batch transfers PROC8b Use

drum pumps.

Mixing operations (closed systems) PROC3

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

Mixing operations (open systems) PROC4

Provide enhanced general ventilation by mechanical means.

Mold forming PROC14

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

Casting operations (open systems) Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC6

Provide extract ventilation to points where emissions occur.

Spraying Machine PROC11

Minimise exposure by extracted full enclosure for the operation or equipment.

Roller application or brushing PROC10

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

Spraying Manual PROC11

Carry out in a vented booth or extracted enclosure.

Storage PROC1

No other specific measures identified.

Storage PROC2

No other specific measures identified.

Section 2.2 Control of environmental exposure

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Product characteristics
Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable

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Section 4 Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]	
4.2. Environment	
Not applicable	

Section 1 Exposure Scenario Title	
Title:	
Agrochemical uses - Professional	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC11, PROC13, PROC2, PROC4, PROC8a, PROC8b
Environmental Release Categories	ERC8A, ERC8D
Specific Environmental Release Category	
Processes, tasks, activities covered	
Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	

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Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

Contributing Scenarios/

Specific Risk Management Measures and Operating Conditions

(only required controls to demonstrate safe use listed)

General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Transfer from/pouring from containers PROC8b Ensure operation is undertaken outdoors. **Mixing operations (open systems) PROC4** Ensure operation is undertaken outdoors.

Spraying/fogging by manual application PROC11

Wear a full face respirator conforming to EN140 with Type A filter or better.

Spraying/fogging by machine application PROC11

Apply within a vented cab supplied with filtered air under positive pressure and with a protection factor of >20. **Ad hoc manual application via trigger sprays, dipping, etc. PROC13** Ensure operation is undertaken outdoors.

Wear a respirator conforming to EN140 with Type A filter or better.

Wear suitable gloves tested to EN374.

Equipment cleaning and maintenance PROC8a

Limit the substance content in the mixture to 25 %.

Avoid carrying out operation for more than 1 hour

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

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Disposal of wastes PROC8a

Ensure operation is undertaken outdoors.
Limit the substance content in the mixture to 25 %.
Avoid carrying out operation for more than 1 hour
Wear suitable gloves tested to EN374.

Storage PROC1

Store substance within a closed system.

Storage PROC2

Store substance within a closed system.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

Not applicable

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

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3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Use as a fuel - Professional	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC16, PROC2, PROC3, PROC8a, PROC8b
Environmental Release Categories	ERC9A, ERC9B
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the use as a fuel (or fuel additive), and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	

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Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]
Other given operational conditions affecting workers exposure
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)
<p>General measures (Flammable Liquid) Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level. Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.</p> <p>Bulk transfers PROC8b Ensure operation is undertaken outdoors. Handle substance within a closed system. Clear transfer lines prior to de-coupling.</p> <p>Drum/batch transfers PROC8b Use drum pumps or carefully pour from container.</p> <p>refuelling PROC8b Use drum pumps or carefully pour from container.</p> <p>Use as a fuel PROC1 Handle substance within a closed system.</p> <p>Use as a fuel PROC2 Handle substance within a closed system.</p> <p>Use as a fuel (closed systems) PROC3 Handle substance within a closed system.</p> <p>Use as a fuel PROC16 Handle substance within a closed system.</p> <p>Equipment cleaning and maintenance PROC8a</p>

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Drain down system prior to equipment break-in or maintenance.
Apply vessel entry procedures including use of supplied compressed air.
Retain drain downs in sealed storage pending disposal or for subsequent recycle.

Storage PROC1

Ensure operation is undertaken outdoors.
Store substance within a closed system.
Transfer via enclosed lines

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

Not applicable

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

3.1. Health

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29]

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The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Functional Fluids - Professional	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC2, PROC20, PROC3, PROC8a, PROC9
Environmental Release Categories	ERC9A, ERC9B
Specific Environmental Release Category	ESVOC 9.13b.v1
Processes, tasks, activities covered	
Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in closed professional equipment including incidental exposures during maintenance and related material transfers.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	

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Other given operational conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]

Contributing Scenarios/

Specific Risk Management Measures and Operating Conditions

(only required controls to demonstrate safe use listed)

General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Drum/batch transfers PROC8a

Use drum pumps or carefully pour from container.

Transfer from/pouring from containers PROC9 Use

drum pumps or carefully pour from container.

Filling / preparation of equipment from drums or containers PROC9 Use

drum pumps or carefully pour from container.

Wear suitable gloves tested to EN374.

General exposures (closed systems) PROC1

Handle substance within a closed system.

General exposures (closed systems) PROC2 No

other specific measures identified.

General exposures (closed systems) PROC3 No

other specific measures identified.

Operation of equipment containing engine oils and similar PROC20 No

other specific measures identified.

Operation is carried out at elevated temperature (> 20°C above ambient temperature). Operation of equipment containing engine oils and similar PROC20

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Handle substance within a predominantly closed system provided with extract ventilation.

Remanufacture of reject articles PROC9

Provide enhanced general ventilation by mechanical means.

Equipment maintenance PROC8a

Drain down system prior to equipment break-in or maintenance.

Storage PROC1

Store substance within a closed system.

Storage PROC2

Store substance within a closed system.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organisation measures to prevent/limit release from site

Not applicable

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

3.1. Health

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Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
De-icing and anti-icing applications - Professional	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC10, PROC11, PROC2, PROC8a, PROC8b
Environmental Release Categories	ERC8D
Specific Environmental Release Category	
Processes, tasks, activities covered	
Ice prevention and de-icing of vehicles, aircraft and other equipment by spraying.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	

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Other given operational conditions affecting workers exposure
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)
General measures (Flammable Liquid) Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level. Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice. Bulk transfers PROC8b Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 1 hour Wear suitable gloves tested to EN374. Material transfers PROC8b Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 1 hour Wear suitable gloves tested to EN374. Spraying/fogging by machine application Operation is carried out at elevated temperature (> 20°C above ambient temperature). PROC11 Limit the substance content in the mixture to 5 %. Avoid carrying out operation for more than 1 hour Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Equipment cleaning and maintenance PROC10 Limit the substance content in the mixture to 1 %. Avoid carrying out operation for more than 4 hours. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Section 2.2 Control of environmental exposure

Product characteristics
Not applicable
Duration, frequency and amount

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Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

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Section 1 Exposure Scenario Title	
Title:	
Road and construction applications	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC10, PROC11, PROC13, PROC2, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC8D, ERC8F
Specific Environmental Release Category	
Processes, tasks, activities covered	
Bulk loading (including marine vessel/barge, rail/road car and IBC loading)	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Drum/batch transfers Non-dedicated facility PROC8a

Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely.

Drum/batch transfers Dedicated facility PROC8b Use

dedicated equipment.

Clear transfer lines prior to de-coupling.

Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely.

Roller application or brushing PROC10 Ensure

operation is undertaken outdoors.

Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely.

Spraying/fogging by machine application PROC11 Ensure

operation is undertaken outdoors.

Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely.

Dipping, immersion and pouring PROC13

Ensure operation is undertaken outdoors.

Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely.

Wear suitable gloves tested to EN374.

Equipment cleaning and maintenance PROC8a Ensure

operation is undertaken outdoors.

Avoid carrying out operation for more than 1 hour

Retain drain downs in sealed storage pending disposal or for subsequent recycle.

Wear suitable gloves tested to EN374.

Section 2.2 Control of environmental exposure

Product characteristics

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Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

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4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Use in laboratories - Professional	
Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC10, PROC15
Environmental Release Categories	ERC8A
Specific Environmental Release Category	
Processes, tasks, activities covered	
Use of small quantities within laboratory settings, including material transfers and equipment cleaning.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Laboratory activities PROC15

No other specific measures identified.

Cleaning PROC10

provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Avoid carrying out operation for more than 1 hour

Ensure the ventilation system is regularly maintained and tested.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

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Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable
Section 1 Exposure Scenario Title
Title:
Explosives manufacture & use
Use Descriptor

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Sector(s) of Use	SU22
Process Categories	PROC1, PROC3, PROC5, PROC8a, PROC8b
Environmental Release Categories	ERC8E
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Bulk transfers PROC3

Handle substance within a closed system.

Drum/batch transfers PROC8a Use drum pumps.

Mixing operations (closed systems) PROC3 No other specific measures identified.

Mixing operations (open systems) PROC5

Provide enhanced general ventilation by mechanical means.

Material transfers PROC8a

Avoid carrying out operation for more than 1 hour

Equipment cleaning and maintenance PROC8b

Drain down system prior to equipment break-in or maintenance.

Transfer from/pouring from containers Non-dedicated facility PROC8a Use drum pumps.

Equipment maintenance PROC8a

Drain down system prior to equipment break-in or maintenance.

Storage PROC1

No other specific measures identified.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

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No exposure assessment presented for the environment [G40]
Technical conditions and measures at process level (source) to prevent release
Not applicable
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil
Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable
Section 1 Exposure Scenario Title
Title:
Water treatment chemicals - Professional

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Use Descriptor	
Sector(s) of Use	SU22
Process Categories	PROC1, PROC13, PROC2, PROC3, PROC4, PROC8a, PROC8b
Environmental Release Categories	ERC8F
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the use of the substance for the treatment of water in open and closed systems.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of worker exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
Other given operational conditions affecting workers exposure	
Assumes a good basic standard of occupational hygiene is implemented [G1] Assumes use at not more than 20°C above ambient temperature[G15]	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the recast ATEX Directive 2014/34/EU. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid ignition sources – No Smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Comply with relevant EU/national regulations. Review SDS for additional advice.

Drum/batch transfers PROC8b Use drum pumps.

General exposures (closed systems) PROC3 No other specific measures identified.

General exposures (open systems) PROC4

provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Transfer via enclosed lines

Pouring from small containers PROC13

Avoid carrying out operation for more than 1 hour

Provide extract ventilation to points where emissions occur.

Equipment maintenance PROC8a

provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Drain down system prior to equipment break-in or maintenance.

Storage PROC1

Store substance within a closed system.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Technical conditions and measures at process level (source) to prevent release

Not applicable

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

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Not applicable
Organisation measures to prevent/limit release from site
Not applicable
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37] Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Use in Coatings - Consumer	
Use Descriptor	
Sector(s) of Use	SU21
Product Categories	PC01, PC04, PC08, PC09A, PC09B, PC09C, PC15, PC18, PC23, PC24, PC31, PC34

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Environmental Release Categories	ERC8A, ERC8D
Specific Environmental Release Category	ESVOC 8.3c.v1
Processes, tasks, activities covered	
Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	
Not applicable	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

Adhesives, sealants Glues, hobby use PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 9 grams

Covers use in room size of 20 m³

Covers exposure up to 4 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

Covers use under typical household ventilation.

Covers use at ambient temperatures.

Adhesives, sealants Glues, DIY-use (carpet glue, tile glue, wood parquet glue) PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 1 days/yr

Covers skin contact area up to 110 cm²

For each use event, covers use amounts up to 6390 grams Covers use under typical household ventilation.

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Covers exposure up to 6 hour(s)

Covers use in room size of 20 m³

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Adhesives, sealants Glue from spray PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 6 days/yr

Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 85.05 grams

Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Covers use in room size of 20 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Adhesives, sealants Sealants PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 35.73 cm² For each use event, covers use amounts up to 75 grams Covers use under typical household ventilation.

Covers exposure up to 1 hour(s)

Covers use in room size of 20 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Anti-freeze and de-icing products Washing car window PC04

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Covers concentrations up to 1 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

For each use event, covers use amounts up to 0.5 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.02 hour(s) Covers use in room size of 34 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Covers skin contact area up to 857.5 cm²

Anti-freeze and de-icing products Pouring into radiator PC04

Covers concentrations up to 10 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 2000 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.17 hour(s) Covers use in room size of 34 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Anti-freeze and de-icing products Lock de-icer PC04

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 214.4 cm²

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For each use event, covers use amounts up to 4 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.25 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Biocidal products (e.g. disinfectants, pest control) Laundry and dish washing products PC08 Covers concentrations up to 5 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 15 grams

Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 0.5 hour(s)

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Biocidal products (e.g. disinfectants, pest control) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) PC08

Covers concentrations up to 5 %

Covers use up to 1 times per day

Covers use up to 128 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 27 grams

Covers use under typical household ventilation.

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Covers exposure up to 0.33 hour(s)
Covers use in room size of 20 m³ Covers
use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Biocidal products (e.g. disinfectants, pest control) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) PC08 Covers concentrations up to 15 %

Covers use up to 1 times per day

Covers use up to 128 days/yr

Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 35 grams Covers
use under typical household ventilation.

Covers exposure up to 0.17 hour(s)
Covers use in room size of 20 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Coatings and paints, thinners, paint removers Waterborne latex wall paint PC09A

Covers concentrations up to 1.5 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 2760 grams Covers
use under typical household ventilation.

Covers use in room size of 20 m³ Covers
exposure up to 2.2 hour(s)

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint PC09A Covers
concentrations up to 27.5 %

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Covers use up to 1 times per day

Covers use up to 6 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 744 grams

Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)

Covers use in room size of 20 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Coatings and paints, thinners, paint removers Aerosol spray can PC09A

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 2 days/yr

For each use event, covers use amounts up to 215 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.33 hour(s)

Covers use in room size of 34 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Covers skin contact area up to 857.5 cm²

Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover) PC09A

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 3 days/yr

Covers skin contact area up to 857.5 cm²

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For each use event, covers use amounts up to 491 grams Covers use under typical household ventilation.

Covers exposure up to 2 hour(s)

Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Fillers, putties, plasters, modelling clay fillers and Putty PC09B

Covers concentrations up to 2 %

Covers use up to 1 times per day

Covers use up to 12 days/yr

Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 85 grams Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Fillers, putties, plasters, modelling clay Plasters and floor equalizers PC09B

Covers concentrations up to 2 %

Covers use up to 1 times per day

Covers use up to 12 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 13800 grams Covers use under typical household ventilation.

Covers exposure up to 2 hour(s)

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Covers use in room size of 20 m³
Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Fillers, putties, plasters, modelling clay Modelling clay PC09B

Covers concentrations up to 1 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 254.4 cm²

For each use event, assumes swallowed amount of 1 grams

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

For each use event, covers use amounts up to 13800 grams

Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 6 hour(s)

Finger paints PC09C

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 254.4 cm²

For each use event, assumes swallowed amount of 1.35 grams

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

For each use event, covers use amounts up to 13800 grams

Covers use under typical household ventilation.

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Covers use in room size of 20 m³

Covers exposure up to 6 hour(s)

Non-metal-surface treatment products Waterborne latex wall paint PC15

Covers concentrations up to 1.5 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 2760 grams Covers use under typical household ventilation.

Covers use in room size of 20 m³ Covers exposure up to 2.2 hour(s) Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Non-metal-surface treatment products Solvent rich, high solid, water borne paint PC15

Covers concentrations up to 27.5 %

Covers use up to 1 times per day

Covers use up to 6 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 744 grams Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s) Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Non-metal-surface treatment products Aerosol spray can PC15

Covers concentrations up to 50 %

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Covers use up to 1 times per day

Covers use up to 2 days/yr

For each use event, covers use amounts up to 215 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.33 hour(s)

Covers use in room size of 34 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Covers skin contact area up to 857.5 cm²

Non-metal-surface treatment products Removers (paint-, glue-, wall paper-, sealant-remover) PC15 Covers
concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 3 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 491 grams Covers
use under typical household ventilation.

Covers exposure up to 2 hour(s)

Covers use in room size of 20 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Ink and toners PC18

Covers concentrations up to 10 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 71.4 cm²

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For each use event, covers use amounts up to 40 grams
Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)
Covers use in room size of 20 m³
Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Leather tanning, dye, finishing, impregnation and care products Polishes, wax / cream (floor, furniture, shoes)

PC23

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 29 days/yr

Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 56 grams
Covers use under typical household ventilation.

Covers exposure up to 1.23 hour(s)
Covers use in room size of 20 m³
Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Leather tanning, dye, finishing, impregnation and care products Polishes, spray (furniture, shoes) PC23 Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 8 days/yr

Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 56 grams
Covers use under typical household ventilation.

Covers exposure up to 0.33 hour(s)

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Covers use in room size of 20 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Lubricants, Greases and Release products Liquids PC24

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2200 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.17 hour(s)

Covers use in room size of 34 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Lubricants, Greases and Release products Pastes PC24

Covers concentrations up to 20 %

Covers use up to 1 times per day

Covers use up to 10 days/yr

Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 34 grams
Liquid, vapour pressure > 10 kPa at STP. Covers use at ambient temperatures.

Covers use in room size of 20 m³

Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Lubricants, Greases and Release products Sprays PC24

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Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 6 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 73 grams

Covers use under typical household ventilation.

Covers exposure up to 0.17 hour(s)

Covers use in room size of 20 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes) PC31

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 29 days/yr

Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 142 grams

Covers use under typical household ventilation.

Covers exposure up to 1.23 hour(s)

Covers use in room size of 20 m³

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Polishes and wax blends Polishes, spray (furniture, shoes) PC31

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 8 days/yr

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Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 35 grams

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Covers use under typical household ventilation.

Covers exposure up to 0.33 hour(s)

Covers use in room size of 20 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Textile dyes, finishing and impregnating products; including bleaches and other processing aids PC34 Covers
concentrations up to 10 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 115 grams Covers
use under typical household ventilation.

Covers exposure up to 1 hour(s)

Covers use in room size of 20 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

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3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Use in Cleaning Agents - Consumer	
Use Descriptor	
Sector(s) of Use	SU21
Product Categories	PC03, PC04, PC08, PC09A, PC09B, PC09C, PC24, PC35, PC38
Environmental Release Categories	ERC8A, ERC8D
Specific Environmental Release Category	ESVOC 8.4c.v1
Processes, tasks, activities covered	
Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	

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Not applicable

**Contributing Scenarios/
Specific Risk Management Measures and Operating Conditions**
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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

Air care products Air care, instant action (aerosol sprays) PC03

Covers concentrations up to 50 %

Covers use up to 4 times per day

Covers use up to 365 days/yr

For each use event, covers use amounts up to 0.1 grams Covers use under typical household ventilation.

Covers use in room size of 20 m³ Covers

exposure up to 0.25 hour(s) Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Covers skin contact area up to 857.5 cm²

Air care products Air care, continuous action (solid and liquid) PC03

Covers concentrations up to 10 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 35.7 cubic cm

For each use event, covers use amounts up to 0.48 grams

Covers use under typical household ventilation. Covers use in room size of 20 m³

Covers exposure up to 8 hour(s) Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Anti-freeze and de-icing products Washing car window PC04

Covers concentrations up to 1 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

For each use event, covers use amounts up to 0.5 grams

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Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.02 hour(s)

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Covers skin contact area up to 857.5 cm²

Anti-freeze and de-icing products Pouring into radiator PC04

Covers concentrations up to 10 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 2000 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.17 hour(s)

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Anti-freeze and de-icing products Lock de-icer PC04

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 214.4 cm²

For each use event, covers use amounts up to 4 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.25 hour(s)

Covers use at ambient temperatures.

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Liquid, vapour pressure > 10 kPa at STP.

Biocidal products (e.g. disinfectants, pest control) Laundry and dish washing products PC08 Covers concentrations up to 5 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 15 grams Covers use under typical household ventilation.

Covers use in room size of 20 m³ Covers exposure up to 0.5 hour(s) Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Biocidal products (e.g. disinfectants, pest control) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) PC08

Covers concentrations up to 5 %

Covers use up to 1 times per day

Covers use up to 128 days/yr

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Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 27 grams

Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 0.33 hour(s)

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Biocidal products (e.g. disinfectants, pest control) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) PC08 Covers concentrations up to 15 %

Covers use up to 1 times per day

Covers use up to 128 days/yr

Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 35 grams

Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 0.17 hour(s)

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Coatings and paints, thinners, paint removers Waterborne latex wall paint PC09A

Covers concentrations up to 1.5 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 2760 grams

Covers use under typical household ventilation.

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Covers use in room size of 20 m³ Covers exposure up to 2.2 hour(s) Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint PC09A Covers concentrations up to 27.5 %

Covers use up to 1 times per day

Covers use up to 6 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 744 grams Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)
Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Coatings and paints, thinners, paint removers Aerosol spray can PC09A

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 2 days/yr

For each use event, covers use amounts up to 215 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.33 hour(s) Covers use in room size of 34 m³

Liquid, vapour pressure > 10 kPa at STP. Covers skin contact area up to 857.5 cm² Covers use at ambient temperatures.

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Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover) PC09A

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 3 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 491 grams Covers use under typical household ventilation.

Covers exposure up to 2 hour(s)

Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Fillers, putties, plasters, modelling clay fillers and Putty PC09B

Covers concentrations up to 2 %

Covers use up to 1 times per day

Covers use up to 12 days/yr

Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 85 grams Covers use under typical household ventilation.

Covers use in room size of 20 m³ Covers exposure up to 4 hour(s) Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Fillers, putties, plasters, modelling clay Plasters and floor equalizers PC09B

Covers concentrations up to 2 %

Covers use up to 1 times per day

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Covers use up to 12 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 13800 grams

Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 2 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Fillers, putties, plasters, modelling clay Modelling clay PC09B

Covers concentrations up to 1 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 254.4 cm²

For each use event, assumes swallowed amount of 1 grams

Covers use at ambient temperatures.

Covers use under typical household ventilation.

Liquid, vapour pressure > 10 kPa at STP.

Covers exposure up to 2.2 hour(s)

Covers use in room size of 20 m³

For each use event, covers use amounts up to 13800 gram(s)

Finger paints PC09C

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

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Covers skin contact area up to 254.4 cm²

For each use event, assumes swallowed amount of 1.35 grams Covers use at ambient temperatures.

Covers use under typical household ventilation.

Liquid, vapour pressure > 10 kPa at STP.

Covers exposure up to 2.2 hour(s)

Covers use in room size of 20 m³

For each use event, covers use amounts up to 13800 gram(s)

Lubricants, Greases and Release products Liquids PC24

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2200 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.17 hour(s)

Covers use in room size of 34 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Lubricants, Greases and Release products Pastes PC24

Covers concentrations up to 20 %

Covers use up to 1 times per day

Covers use up to 10 days/yr

Covers skin contact area up to 468 cm²

Covers use in room size of 20 m³

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For each use event, covers use amounts up to 34 grams
Liquid, vapour pressure > 10 kPa at STP.

Covers use under typical household ventilation. Covers exposure up to 4 hour(s)
Covers use at ambient temperatures.

Lubricants, Greases and Release products Sprays PC24

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 6 days/yr

Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 73 grams
Covers use under typical household ventilation.

Covers exposure up to 0.17 hour(s)
Covers use in room size of 20 m³
Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Washing and cleaning products (including solvent based products) Laundry and dish washing products PC35

Covers concentrations up to 5 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 15 grams
Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 0.5 hour(s)
Liquid, vapour pressure > 10 kPa at STP.

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Covers use at ambient temperatures.

Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) PC35 Covers concentrations up to 5 %

Covers use up to 1 times per day

Covers use up to 128 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 27 grams Covers use under typical household ventilation.

Covers exposure up to 0.33 hour(s)

Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) PC35

Covers concentrations up to 15 %

Covers use up to 1 times per day

Covers use up to 128 days/yr

Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 35 grams Covers use under typical household ventilation.

Covers exposure up to 0.17 hour(s)

Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Welding and soldering products (with flux coatings or flux cores), flux products PC38

Covers concentrations up to 20 %

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Covers use up to 1 times per day

Covers use up to 365 days/yr

For each use event, covers use amounts up to 12 grams

Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 1 hour(s)

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Covers skin contact area up to 857.5 cm²

Air care products Air care, instant action (aerosol sprays) PC03

Covers concentrations up to 50 %

Covers use up to 4 times per day

Covers use up to 365 days/yr

For each use event, covers use amounts up to 0.5 grams

Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 0.25 hour(s)

Covers skin contact area up to 857.5 cm²

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Air care products Air care, continuous action (solid and liquid) PC03

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 35.7 cm²

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For each use event, covers use amounts up to 0.48 grams Covers
use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 8 hour(s)

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Liquid, vapour pressure > 10 kPa at STP. Covers use at ambient temperatures.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

3.1. Health

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29]

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]

3.2. Environment

Not applicable

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. [G22]

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable

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Section 1 Exposure Scenario Title	
Title:	
Lubricants - Consumer (Low Release)	
Use Descriptor	
Sector(s) of Use	SU21
Product Categories	PC01, PC24, PC31
Environmental Release Categories	ERC9A, ERC9B
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	
Not applicable	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

Adhesives, sealants Glues, hobby use PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 9 grams Covers use under typical household ventilation.

Covers use in room size of 20 m³

Covers exposure up to 4 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Adhesives, sealants Glues, DIY-use (carpet glue, tile glue, wood parquet glue) PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 1 days/yr

Covers skin contact area up to 110 cm²

For each use event, covers use amounts up to 6390 grams Covers use under typical household ventilation.

Covers exposure up to 6 hour(s)

Covers use in room size of 20 m³

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Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Adhesives, sealants Glue from spray PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 6 days/yr

Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 85.05 grams Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP. Covers use at ambient temperatures.

Adhesives, sealants Sealants PC01

Covers concentrations up to 30 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 75 grams Covers use under typical household ventilation.

Covers exposure up to 1 hour(s)

Covers use in room size of 20 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Lubricants, Greases and Release products Liquids PC24

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2200 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.17 hour(s)

Covers use in room size of 34 m³ Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Lubricants, Greases and Release products Pastes PC24

Covers concentrations up to 20 %

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Covers use up to 1 times per day
Covers use up to 10 days/yr
Covers skin contact area up to 468 cm²
For each use event, covers use amounts up to 34 grams
Liquid, vapour pressure > 10 kPa at STP. Covers exposure
up to 4 hour(s)
Covers use at ambient temperatures.
Covers use under typical household ventilation.
Covers use in room size of 20 m³

Lubricants, Greases and Release products Sprays PC24

Covers concentrations up to 50 %
Covers use up to 1 times per day
Covers use up to 6 days/yr
Covers skin contact area up to 428.75 cm²
For each use event, covers use amounts up to 73 grams

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Covers use under typical household ventilation.

Covers exposure up to 0.17 hour(s)

Covers use in room size of 20 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes) PC31

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 29 days/yr

Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 142 grams Covers
use under typical household ventilation.

Covers exposure up to 1.23 hour(s)

Covers use in room size of 20 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Polishes and wax blends Polishes, spray (furniture, shoes) PC31

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 8 days/yr

Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 35 grams Covers
use under typical household ventilation.

Covers exposure up to 0.33 hour(s)

Covers use in room size of 20 m³ Liquid,
vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

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Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title	
Title:	
Agrochemical uses - Consumer	
Use Descriptor	
Sector(s) of Use	SU21

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Product Categories	PC12, PC27
Environmental Release Categories	ERC8A, ERC8D
Specific Environmental Release Category	
Processes, tasks, activities covered	
Covers the consumer use of agrochemicals in liquid and solid forms.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	
Not applicable	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

Fertilizers Lawn and garden preparations PC12

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, assumes swallowed amount of 0.3 grams

Covers exposure up to 4 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Covers use in room size of 20 m³

Covers use under typical household ventilation.

For each use event, covers use amounts up to 50 grams

Plant protection products PC27

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 857.5 cm²

For each use event, assumes swallowed amount of 0.3 grams Liquid, vapour pressure > 10 kPa at STP.

For each use event, covers use amounts up to 50 gram(s) Covers exposure up to 4 hour(s)

Covers use under typical household ventilation.

Covers use at ambient temperatures.

Covers use in room size of 20 m³

Avoid using at a product concentration greater than 2.5 %

Section 2.2 Control of environmental exposure

Product characteristics

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Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title
Title:
Use as a fuel - Consumer

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Use Descriptor	
Sector(s) of Use	SU21
Product Categories	PC13
Environmental Release Categories	ERC9A, ERC9B
Specific Environmental Release Category	ESVOC 9.12c.v1
Processes, tasks, activities covered	
Covers consumer uses in liquid fuels.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	
Not applicable	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

Liquid: Automotive Refuelling PC13

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 52 days/yr

Covers skin contact area up to 210 cm²

For each use event, covers use amounts up to 37500 grams Covers outdoor use.

Covers use in room size of 100 m³

Covers exposure up to 0.05 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Liquid Scooter Refuelling PC13

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 52 days/yr

Covers skin contact area up to 210 cm²

For each use event, covers use amounts up to 3750 grams Covers outdoor use.

Covers use in room size of 100 m³

Covers exposure up to 0.03 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

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Covers use at ambient temperatures.

Liquid, Garden Equipment - Use PC13

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 26 days/yr

For each use event, covers use amounts up to 750 grams Covers outdoor use.

Covers exposure up to 2 hour(s)

Covers use in room size of 100 m³ Covers

skin contact area up to 420 cm² Liquid,

vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Liquid: Garden Equipment - Refueling PC13

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 26 days/yr

Covers skin contact area up to 420 cm²

For each use event, covers use amounts up to 750 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.03 hour(s)

Covers use in room size of 34 m³ Liquid,

vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Liquid: Home space heater fuel PC13

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 210 cm²

For each use event, covers use amounts up to 3000 grams Covers use under typical household ventilation.

Covers use in room size of 20 m³ Covers

exposure up to 0.03 hour(s) Covers use

at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Section 2.2 Control of environmental exposure

Product characteristics

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Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable

Section 1 Exposure Scenario Title
Title:
Functional Fluids - Consumer

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Use Descriptor	
Sector(s) of Use	SU21
Product Categories	PC16, PC17
Environmental Release Categories	ERC9A, ERC9B
Specific Environmental Release Category	
Processes, tasks, activities covered	
Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	
Not applicable	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

Heat transfer fluids Liquids PC16

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2200 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³ Covers exposure up to 0.17 hour(s) Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Hydraulic fluids Liquids PC17

Covers concentrations up to 100 %

Covers use up to 1 times per day

Covers use up to 4 days/yr

Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2200 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.17 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

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Covers use at ambient temperatures.
Section 2.2 Control of environmental exposure
Product characteristics
Not applicable
Duration, frequency and amount
Not applicable
Environmental factors not influenced by risk management
Not applicable
Other given operational conditions affecting environmental exposure
No exposure assessment presented for the environment [G40]
Conditions and measures related to municipal sewage treatment plant
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
Section 3 Exposure Estimation
3.1. Health
Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29] The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]
3.2. Environment
Not applicable
Section 4 Guidance to check compliance with the Exposure Scenario
4.1. Health
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]
4.2. Environment
Not applicable
Section 1 Exposure Scenario Title
Title:

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De-icing and anti-icing applications - Consumer	
Use Descriptor	
Sector(s) of Use	SU21
Product Categories	PC04
Environmental Release Categories	ERC8D
Specific Environmental Release Category	ESVOC 8.14b.v1
Processes, tasks, activities covered	
De-icing of vehicles and similar equipment by spraying.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	
Not applicable	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

Anti-freeze and de-icing products Washing car window PC04

Covers concentrations up to 1 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

For each use event, covers use amounts up to 0.5 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.02 hour(s)

Covers skin contact area up to 428 cm² Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at STP.

Anti-freeze and de-icing products Pouring into radiator PC04

Covers concentrations up to 10 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 2000 grams Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.17 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

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Covers use at ambient temperatures.

Anti-freeze and de-icing products Lock de-icer PC04

Covers concentrations up to 50 %

Covers use up to 1 times per day

Covers use up to 365 days/yr

Covers skin contact area up to 214.4 cm²

For each use event, covers use amounts up to 4 grams

Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Covers exposure up to 0.25 hour(s)

Liquid, vapour pressure > 10 kPa at STP.

Covers use at ambient temperatures.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

3.1. Health

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.[G29]

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]

3.2. Environment

Not applicable

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Section 4 Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]	
4.2. Environment	
Not applicable	

Section 1 Exposure Scenario Title	
Title:	
Other Consumer Uses	
Use Descriptor	
Sector(s) of Use	SU21
Product Categories	PC28, PC39
Environmental Release Categories	ERC8A, ERC8D
Specific Environmental Release Category	ESVOC 8.16.v1
Processes, tasks, activities covered	
Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.	
Section 2 Operational conditions and risk management measures	
Section 2.1 Control of consumer exposure	
Product Characteristic	
Liquid	
Duration, frequency and amount	
Not applicable	
Other given operational conditions affecting consumer exposure	
Not applicable	
Contributing Scenarios/ Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)	

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General measures (Flammable Liquid)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Avoid ignition sources – No Smoking. Review SDS for additional advice.

PC28

PC39

Liquid, vapour pressure > 10 kPa at STP.

Liquid, vapour pressure > 10 kPa at STP.

Section 2.2 Control of environmental exposure

Product characteristics

Not applicable

Duration, frequency and amount

Not applicable

Environmental factors not influenced by risk management

Not applicable

Other given operational conditions affecting environmental exposure

No exposure assessment presented for the environment [G40]

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable

Conditions and measures related to external recovery of waste

Not applicable

Section 3 Exposure Estimation

3.1. Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated [G21]

3.2. Environment

Not applicable

Section 4 Guidance to check compliance with the Exposure Scenario

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4.1. Health

Predicted exposures are not expected to exceed the applicable consumer reference values when the operational conditions/risk management measures given in section 2 are implemented. [G22EM]

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.[G23]

4.2. Environment

Not applicable