

BOSTIK CONTACT N726 MULTI ST
 Supersedes Date: 22-Nov-2019

 Revision date 04-Feb-2020
 Revision Number 1.03

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product Identifier
Product Name BOSTIK CONTACT N726 MULTI ST
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use Adhesives.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet
Company Name

 Bostik Limited
 Common Rd
 ST16 3EH
 Stafford UK
 Tel: +44 (1785) 27 26 25
 Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number
United Kingdom +44 (1785) 272650
Ireland +353 (1) 8624900 (Monday- Friday 9am-5pm)

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 2 - (H411)
Flammable liquids	Category 2 - (H225)

2.2. Label Elements

Contains: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, Ethyl acetate, Acetone, Methyl ethyl ketone


Signal word
 DANGER

Hazard statements
 H319 - Causes serious eye irritation
 H336 - May cause drowsiness or dizziness

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H411 - Toxic to aquatic life with long lasting effects
H225 - Highly flammable liquid and vapour

EU Specific Hazard Statements

EUH066 - Repeated exposure may cause skin dryness or cracking
EUH208 - Contains Rosin & 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane. May produce an allergic reaction

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P261 - Avoid breathing vapours
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P391 - Collect spillage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
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

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2. Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	926-605-8	--	>25 - <40	STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225) (EUH066)		01-2119486291-36-xxxx
Ethyl acetate	205-500-4	141-78-6	10 - <20	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)		01-2119475103-46-XXXX
Acetone	200-662-2	67-64-1	10 - <20	Eye Irrit. 2		01-2119471330-

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				(H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)		49-XXXX
Methyl ethyl ketone	201-159-0	78-93-3	1 - <5	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)		01-2119457290-43-XXXX
Rosin	232-475-7	8050-09-7	0.1 - <1	Skin Sens. 1 (H317)		01-2119480418-32-XXXX
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	216-823-5	1675-54-3	0.1 - <1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	01-2119456619-26-xxxx
N,N'-Ethylenebis(12-hydroxyoctadecanamide)	204-613-6	123-26-2	0.1 - <1	Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)		01-2119978265-26-XXXX
2,2-Methylenebis(4-methyl-6-tert-butylphenol)	204-327-1	119-47-1	0.1 - <1	Repr. 2 (H361f)		01-2119496065-33-XXXX

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

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)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Drink 1 or 2 glasses of water. Call a doctor or poison control centre immediately.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of

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contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

Symptoms Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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 Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media Do not use straight streams. CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow to enter into soil/subsoil.

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. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Eliminate all ignition sources if safe to do so.

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6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations.

7.3. Specific end use(s)

Specific Use(s)
Adhesives.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Ireland	United Kingdom
Ethyl acetate 141-78-6	-	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3630 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3620 mg/m ³
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 899 mg/m ³

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		Sk*	Sk*
Rosin 8050-09-7	-	TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³	TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³

Chemical name	European Union	Ireland	United Kingdom
Methyl ethyl ketone 78-93-3	-	-	70 µmol/L urine

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL) Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane (--)

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	13 964 mg/kg bw/d

Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	5 306 mg/m ³

Ethyl acetate (141-78-6)

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	63 mg/kg bw/d

Type	worker Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1468 mg/m ³

Type	worker Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	734 mg/m ³

Type	worker Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1468 mg/m ³

Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	734 mg/m ³

Acetone (67-64-1)

Type	Long term Systemic health effects worker
Exposure route	Dermal
Derived No Effect Level (DNEL)	186 mg/kg bw/d

Type	Short term Local health effects worker
Exposure route	Inhalation
Derived No Effect Level (DNEL)	2420 mg/m ³

Type	Long term Systemic health effects worker
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1210 mg/m ³

Methyl ethyl ketone (78-93-3)

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	1161 mg/kg bw/d

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Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	600 mg/m ³

Rosin (8050-09-7)

Type	worker Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	10 mg/m ³

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	2131 mg/kg bw/d

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)

Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	12.25 mg/m ³

Type	worker Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	12.25 mg/m ³

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	8.33 mg/kg bw/d

Type	worker Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	8.33 mg/kg bw/d

2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)

Type	worker Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	22.4 mg/m ³

Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	4.48 mg/m ³

Type	worker Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	3.175 mg/kg bw/d

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	0.635 mg/kg bw/d

Derived No Effect Level (DNEL)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane (--)

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	1 377 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1 131 mg/m ³

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Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	1 301 mg/kg bw/d

Ethyl acetate (141-78-6)

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	4.5 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	37 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	734 mg/m ³

Type	Consumer Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	367 mg/m ³

Type	Consumer Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	734 mg/m ³

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	367 mg/m ³

Acetone (67-64-1)

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	200 mg/m ³

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	62 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	62 mg/kg bw/d

Methyl ethyl ketone (78-93-3)

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	412 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	106 mg/m ³

Type	Consumer Local health effects Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	31 mg/kg bw/d

Rosin (8050-09-7)

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	1065 mg/kg bw/d

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Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	1065 mg/kg bw/d

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	3.571 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	3.571 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	0.75 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	0.75 mg/kg bw/d

2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)	
Type	Consumer Short term Systemic health effects
Exposure route	Oral Dermal
Derived No Effect Level (DNEL)	1.59 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Oral Dermal
Derived No Effect Level (DNEL)	0.318 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	5.5 mg/m ³

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1.1 mg/m ³

Predicted No Effect Concentration (PNEC) No information available.
(PNEC)

Predicted No Effect Concentration (PNEC)	
Ethyl acetate (141-78-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.26 mg/l
Marine water	0.026 mg/l
Freshwater sediment	1.25 mg/kg
Marine sediment	0.125 mg/kg
Soil	0.24 mg/kg
Microorganisms in sewage treatment	650 mg/l

Acetone (67-64-1)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	10.6 mg/l
Freshwater - intermittent	21 mg/l
Marine water	1.06 mg/l
Microorganisms in sewage treatment	100 mg/l
Freshwater sediment	30.4 mg/kg dry weight
Marine water	3.04 mg/kg dry weight

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Soil	29.5 mg/kg dry weight
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Methyl ethyl ketone (78-93-3)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	55.8 mg/l
Marine water	55.8 mg/l
Freshwater sediment	287.74 mg/l
Marine sediment	287.7 mg/l
Soil	22.5 mg/l

Rosin (8050-09-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.002 mg/l
Marine water	0 mg/l
Sewage treatment plant	1000 mg/l
Freshwater sediment	0.007 mg/l
Marine sediment	0.001 mg/l

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.006 mg/l
Marine water	0.001 mg/l
Sewage treatment plant	10 mg/l
Freshwater sediment	0.996 mg/kg dry weight
Marine sediment	0.1 mg/kg dry weight
Soil	0.196 mg/kg dry weight

2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Soil	20 mg/kg dry weight
Sewage treatment plant	100 mg/l
Freshwater sediment	102 mg/kg dry weight
Marine sediment	10.2 mg/kg dry weight
Marine water	0.68 µg/l
Freshwater	6.8 µg/l

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

Personal Protective Equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.
Hand protection Wear protective gloves. Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and body protection Wear appropriate personal protective clothing to prevent skin contact. Suitable protective clothing.
Respiratory protection In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Recommended filter type: Organic gases and vapours filter conforming to EN 14387.

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
Appearance viscous
Colour Clear, Beige
Odour Solvent
Odour threshold No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	55 °C	
Flash point	-20 °C	
Evaporation rate	No data available	
Flammability (solid, gas)	Not applicable for liquids .	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Relative density	No data available	
Water solubility	Insoluble in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	> 500 mm ² /s	@ 40°C
Dynamic viscosity	3100 - 3700 mPa s	
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	approx. 29
Softening Point	No information available
Molecular weight	No information available
VOC Content (%)	71 g/L
Density	0.9
Bulk density	No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion Data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

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Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Causes serious eye irritation. May cause redness, itching, and pain.

Skin contact May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane --	LD50 >16.5 g/Kg (Rattus) (OECD Guideline 201)	LD50 >3.35 g/Kg (Oryctolagus cuniculus) (OECD 402)	LC50 (4h) =73680 ppm (Vapour - Rat)
Ethyl acetate 141-78-6	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus)	LC0 29.3 mg/l air
Acetone 67-64-1	=5800 mg/kg (Rattus)	>15800 mg/Kg (Rattus)	=79 mg/l(Rattus) 4 h
Methyl ethyl ketone 78-93-3	=2483 mg/kg (Rattus)	= 5000 mg/kg (Oryctolagus cuniculus)	=11700 ppm (Rattus) 4 h
Rosin 8050-09-7	>2000 mg/Kg (Rattus)	> 2500 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis oxirane 1675-54-3	=11300 µL/kg (Rattus)	LD50 >2000 mg/Kg (Rattus)	
N,N'-Ethylenebis(12-hydroxyoctadecanamide) 123-26-2	>2000 mg/Kg (Rattus)		
2,2-Methylenebis(4-methyl-6-tert-butylphenol) 119-47-1	>10000 mg/kg (Rattus)	> 10000 mg/kg (Oryctolagus cuniculus)	

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

Skin corrosion/irritation May cause skin irritation.

Component Information					
2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal		4 hours	Product score 0

Serious eye damage/eye irritation Causes serious eye irritation.

Component Information					
2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Product score 0 Opacity

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Component Information			
2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)			
Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse	Dermal	Not a skin sensitiser

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Component Information		
2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)		
Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro	Not mutagenic

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Component Information		
2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)		
Method	Species	Results
OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	LOAEL Testicular damage in animals

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor	M-Factor (long-term)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane --	-	LL50 (96h)=12mg/L (Oncorhynchus mykiss)Semi-static OECD 203	-	-		
Ethyl acetate 141-78-6	EC50: =3300mg/L (48h, Desmodesmus subspicatus)	LC50: =484mg/L (96h, Oncorhynchus mykiss) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50: 220 - 250mg/L (96h, Pimephales promelas)	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50: =560mg/L (48h, Daphnia magna)		
Acetone 67-64-1	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 = 14500 mg/L 15 min	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)		
Methyl ethyl ketone 78-93-3	EC50=1972 mg/l (Pseudokirchneriella subcapitata)	LC50: 3130 - 3320mg/L (96h, Pimephales promelas)	EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min	EC50 48 h > 308 mg/L (Daphnia magna)		
Rosin 8050-09-7	EC50: =400mg/L (72h, Desmodesmus subspicatus)	LC50 (96h) >10mg/L (Danio rerio)	EC50 = 31.5 mg/L 30 min	EC50 48 h >100 mg/L (Daphnia magna)		
2,2-Methylenebis(4-methyl-6-tert-butylphenol) 119-47-1	-	LD50 (96h) >5mg/L	-	-		

12.2. Persistence and degradability

Persistence and degradability

No information available.

Component Information

Methyl ethyl ketone (78-93-3)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	biodegradation	98 % Readily biodegradable

2,2-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days		0 % Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

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Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Ethyl acetate 141-78-6	0.6	30
Acetone 67-64-1	-0.24	0.69
Methyl ethyl ketone 78-93-3	0.3	-
2,2-Methylenebis(4-methyl-6-tert-butylphenol) 119-47-1	>3.6	840

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

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

Chemical name	PBT and vPvB assessment
Ethyl acetate 141-78-6	The substance is not PBT / vPvB PBT assessment does not apply
Acetone 67-64-1	The substance is not PBT / vPvB
Methyl ethyl ketone 78-93-3	The substance is not PBT / vPvB
Rosin 8050-09-7	The substance is not PBT / vPvB Further information relevant for the PBT assessment is necessary
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane 1675-54-3	The substance is not PBT / vPvB
N,N'-Ethylenebis(12-hydroxyoctadecanamide) 123-26-2	The substance is not PBT / vPvB
2,2-Methylenebis(4-methyl-6-tert-butylphenol) 119-47-1	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	Group II Chemical	-

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of

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weld containers.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 10*: Packaging containing residues of or contaminated by 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

Land transport (ADR/RID)

14.1 UN Number UN1133
14.2 Proper Shipping Name Adhesives, Environmentally Hazardous
14.3 Transport hazard class(es) 3
Labels 3
14.4 Packing Group II
Description UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous
14.5 Environmental hazards Yes
14.6 Special Provisions 640D
Classification Code F1
Tunnel restriction code (D/E)
Limited Quantity (LQ) 5 L
ADR Hazard Id (Kemmler Number) 33

IMDG

14.1 UN number UN1133
14.2 Proper Shipping Name Adhesives (Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane), Marine Pollutant
14.3 Transport hazard class(es) 3
14.4 Packing group II
Description UN1133, Adhesives (Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane), 3, II, (-20°C c.c.), Marine Pollutant
14.5 Marine Pollutant P.
14.6 Special Provisions None
Limited Quantity (LQ) 5 L
EmS-No. F-E, S-D
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number UN1133
14.2 Proper Shipping Name Adhesives
14.3 Transport hazard class(es) 3
14.4 Packing group II
Description UN1133, Adhesives, 3, II
14.5 Environmental hazards Yes
14.6 Special Provisions A3
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

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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)

SVHC: Substances of Very High Concern for Authorisation:

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).

Substance subject to authorisation per REACH Annex XIV

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

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

P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

Not applicable

Persistent Organic Pollutants

Not applicable

National Regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

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

EUH066 - Repeated exposure may cause skin dryness or cracking
H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H361f - Suspected of damaging fertility
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

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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

No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 04-Feb-2020

Indication of changes

Revision note Not applicable.

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

Further information No information available

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

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