

BOSTIK WOOD ADHESIVE 800 PU
 Supersedes Date: 04-Dec-2019

Revision Date: 19-Oct-2020
 Revision Number 1.01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name BOSTIK WOOD ADHESIVE 800 PU
Pure substance/mixture Mixture

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

Recommended use Adhesive.
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik AB
 Strandbadsvaegen 22
 PO Box 903
 25109 Helsingborg, Sweden
 Tel: +46 42 19 50 00
 Fax: +46 42 19 50 20

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

1.4. Emergency telephone number

Emergency Telephone

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)

2.2. Label Elements

Contains: 4,4'-Methylenediphenyl diisocyanate, Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-, Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol, Isocyanic acid, polymethylenepolyphenylene ester

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Signal word
DANGER

Hazard statements

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.

EU Specific Hazard Statements

EUH204 - Contains isocyanates. May produce an allergic reaction.

Precautionary statements

P102 - Keep out of reach of children.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P261 - Avoid breathing vapours.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P284 - Wear respiratory protection.
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Additional information

This product requires tactile warnings if supplied to the general public. .

Special provisions concerning the labelling of certain mixtures

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. Type A1 according to standard EN 14387) is used. Reserved for industrial and professional use.

2.3. Other Hazards

No information available

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (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

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Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol	-	67815-87-6	40 - <80	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Acute Tox. 4 (H332)		[7]
Isocyanic acid, polymethylenepolyphenylene ester	618-498-9	9016-87-9	>25 - <40	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	[7]
4,4'-Methylenediphenyl diisocyanate	202-966-0	101-68-8	1 - <5	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	01-2119457014-47-XXXX
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	227-534-9	5873-54-1	1 - <5	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	01-2119480143-45-XXXX
Benzene, 1,1'-methylenebis[2-isocyanato-4-phenyl]-	219-799-4	2536-05-2	0.1 - <1	Acute Tox. 4 (H332)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 ::	01-2119927323-43-XXXX

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yanato-				Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	
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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)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	May produce an allergic reaction. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Clean mouth with water. Drink 1 or 2 glasses of water.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.

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

Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. Burning sensation. Difficulty in breathing.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Full water jet. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Product is or contains a sensitiser. May cause sensitisation by inhalation and skin contact. May cause sensitisation by skin contact.

Hazardous combustion products Carbon oxides. Carbon monoxide. Nitrogen oxides (NOx).

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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.

Other information 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.

6.3. Methods and material for containment and cleaning up

Methods for containment Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated

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clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

7.3. Specific end use(s)

Specific Use(s)
Adhesive.

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

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

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects	Dermal	50 mg/kg bw/d	
worker Short term Systemic health effects	Inhalation	0.1 mg/m ³	
worker Short term Local health effects	Dermal	28700 µg/cm ²	
worker Short term Local health effects	Inhalation	0.1 mg/m ³	
worker Long term Systemic health effects	Inhalation	0.05 mg/m ³	
worker Long term Local health effects	Inhalation	0.05 mg/m ³	

Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	0.05 mg/m ³	
worker Short term	Inhalation	0.1 mg/m ³	

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Local health effects			
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Derived No Effect Level (DNEL)			
4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Short term Systemic health effects	Dermal	25 mg/kg bw/d	
Consumer Short term Systemic health effects	Inhalation	0.05 mg/m ³	
Consumer Short term Systemic health effects	Oral	20 mg/kg bw/d	
Consumer Short term Local health effects	Dermal	17200 µg/cm ²	
Consumer Short term Local health effects	Inhalation	0.05 mg/m ³	
Consumer Long term Systemic health effects	Inhalation	0.025 mg/m ³	
Consumer Long term Local health effects	Inhalation	0.025 mg/m ³	

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

Predicted No Effect Concentration (PNEC)	
4,4'-Methylenediphenyl diisocyanate (101-68-8)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Soil	1 mg/kg dry weight
Sewage treatment plant	1 mg/l
Freshwater - intermittent	10 mg/l

Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Sewage treatment plant	1 mg/l
Soil	1 mg/kg dry weight
Freshwater - intermittent	10 mg/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

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166

Hand protection

Nitrile rubber. Butyl rubber. Glove thickness > 0.4 mm. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves must conform to standard EN 374

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Skin and body protection Suitable protective clothing.
Recommended filter type: Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour dark brown
Odour Earthy
Odour threshold No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	~368 @ 1.013 hPa	
Flash point	> 250 °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	1.6	
Vapour density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	~5.400 mPa s	
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%) No information available
VOC Content (%) No information available
Density 1.15 g/cm³

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 None.

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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Exothermic reaction with. Amines. Alcohols. Contact with water (moisture) liberates carbon dioxide, which causes pressure increase in closed containers.

10.4. Conditions to avoid

Conditions to avoid No information available.

10.5. Incompatible materials

Incompatible materials No information available.

10.6. Hazardous decomposition products

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	Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.
Eye contact	Irritating to eyes. Causes serious eye irritation.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

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

ATEmix (inhalation-dust/mist) 1.50 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene		LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	

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ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol 67815-87-6		OECD 402	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h
4,4'-Methylenediphenyl diisocyanate 101-68-8	=31600 mg/kg (Rattus) = 9200 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (Rattus) 4 h
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	LD50 >2000 mg/Kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (4h) Rat
Benzene, 1,1'-methylenebis[2-isocyanato - 2536-05-2	LD50 > 2000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (4h) Rat

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

Skin corrosion/irritation

Classification based on data available for ingredients. Causes skin irritation.

Component Information					
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				Mild skin irritant

Serious eye damage/eye irritation Causes serious eye irritation.

Component Information					
4,4'-Methylenediphenyl diisocyanate (101-68-8)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	0.1 mL	24 hours	Non-irritant

Respiratory or skin sensitisation May cause sensitisation by inhalation. May cause sensitisation by skin contact.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig		No sensitisation responses were observed
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitising

4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Method	Species	Exposure route	Results
OECD GD 39	Rat	Inhalation	Sensitizing

Germ cell mutagenicity

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

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Carcinogenicity Classification based on data available for ingredients. Contains a known or suspected carcinogen.

Chemical name	European Union
4,4'-Methylenediphenyl diisocyanate 101-68-8	Carc. 2
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	Carc. 2
Benzene, 1,1'-methylenebis[2-isocyanato- 2536-05-2	Carc. 2

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information		
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic
4,4'-Methylenediphenyl diisocyanate (101-68-8)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Limited evidence of a carcinogenic effect

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

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs.

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

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) >1000 mg/L (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna		
4,4'-Methylenediphenyl diisocyanate 101-68-8	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	>1000 mg/l (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna		
Benzene, 1-isocyanato-2-[(4-isoc	ErC50 (72h) >1640 mg/L	LC50 (96 h) > 1000 mg/l	-	EC50 (24H) >1000 mg/L		

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yanatophenyl)methyl]-5873-54-1	Algae (scenedesmus subspicatus) (OECD 201)	(Danio rerio) OECD 203		Daphnia magna		
Benzene, 1,1'-methylenebis[2-isocyanato-2536-05-2	-	LC50 (96 h) > 1000 mg/l (Danio rerio) OECD 203	-	-		

12.2. Persistence and degradability

Persistence and degradability No information available.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	< 14
4,4'-Methylenediphenyl diisocyanate 101-68-8	4.51	200
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	200
Benzene, 1,1'-methylenebis[2-isocyanato-2536-05-2	-	200

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
4,4'-Methylenediphenyl diisocyanate 101-68-8	The substance is not PBT / vPvB
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	The substance is not PBT / vPvB
Benzene, 1,1'-methylenebis[2-isocyanato-2536-05-2	The substance is not PBT / vPvB

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12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

European Waste Catalogue 08 05 01* waste isocyanates
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 Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special Provisions None

IMDG

14.1 UN number Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Marine pollutant Np
14.6 Special Provisions None
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 Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special Provisions None

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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
4,4'-Methylenediphenyl diisocyanate	101-68-8	56[a].
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	5873-54-1	56[b].
Benzene, 1,1'-methylenebis[2-isocyanato-	2536-05-2	56[c].

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If product supplied to the general public with substance $\geq 0.1\%$, then gloves must be provided with the product

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)

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
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	RG 62
4,4'-Methylenediphenyl diisocyanate 101-68-8	RG 62
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	RG 62
Benzene, 1,1'-methylenebis[2-isocyanato- 2536-05-2	RG 62

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Netherlands

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

Not Listed

MAL-Code 00-3 (1993)

Sweden

Occupational exposure limits AFS 2018:1

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. AFS 2012:3

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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

Legend

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling

Ceiling Limit Value

*

Skin designation

SVHC

Substance(s) of Very High Concern

PBT

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB

Very Persistent and very Bioaccumulative (vPvB) 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:

19-Oct-2020

Indication of changes

Revision note

Not applicable.

Training Advice

No information available

Further information

No information available

This material 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