



OWL PU MASTIC

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its
Amendment Regulation (EC) No. 1272/2008 (CLP) and EU 2020/878

Printing Date 16. 09. 2025

Version Number 3 (replaces version 2)

Revision: 16. 09. 2025

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

1.1 Product identifier

Trade name: OWL PU MASTIC

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

Application of the substance / the mixture: Polyurethane sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

OWL WATERPROOFING SOLUTIONS

135 Slaney Road, Dublin Industrial Estate

Glasnevin, Dublin 11

Tel: +353 01 830 2250

Email: info@owlwaterproofing.co.uk

Website: www.owlwaterproofing.co.uk

1.4 Emergency telephone number:

European Emergency Tel.: +353 01 830 2250

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:

H334 Respiratory sensitisation, Category 1

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS08



Signal word: Danger

Hazard statements:

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

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.



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P261 Avoid breathing vapours.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER, doctor.

P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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 is used. As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1), Calcium oxide (1305-78-8), 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8), Titanium Dioxide (13463-67-7), reaction mass of ethylbenzene and xylene (no CAS number)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1), Calcium oxide (1305-78-8), 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8), Titanium Dioxide (13463-67-7), reaction mass of ethylbenzene and xylene (no CAS number)

The mixture does not contain any substances listed under Article 59(1) of REACH as having endocrine-disrupting properties, nor substances identified as endocrine disruptors under the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at concentrations equal to or greater than 0.1%



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Component

Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

reaction mass of ethylbenzene and xylene (no CAS number), Titanium Dioxide (13463-67-7), 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8), Calcium oxide (1305-78-8), 4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

SECTION 3: Composition/information on ingredients

3.1 Substances: Not Applicable

3.2 Mixtures

Reaction mass of ethylbenzene and xylene CAS-No.: no CAS number EC-No.: 905-588-0	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	$\geq 5\% - < 10\%$
Titanium Dioxide CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2	Carc. 2, H351	$\geq 1\% - < 5\%$
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317	$\geq 0.5\% - < 1\%$
Calcium oxide substance with a Community workplace exposure limit CAS-No.: 1305-78-8 EC-No.: 215-138-9	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	$\geq 0.5\% - < 1\%$
4-isocyanatosulphonyltoluene; tosyl isocyanate CAS-No.: 4083-64-1 EC-No.: 223-810-8 EC Index-No.: 615-012-00-7	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335	$< 0.5\%$



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Specific Concentration Limits	
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9	(0,1 ≤ C ≤ 100) Resp. Sens. 1; H334 (5 ≤ C ≤ 100) STOT SE 3; H335 (5 ≤ C ≤ 100) Skin Irrit. 2; H315 (5 ≤ C ≤ 100) Eye Irrit. 2; H319
4-isocyanatosulphonyltoluene; tosyl isocyanate CAS-No.: 4083-64-1 EC-No.: 223-810-8 EC Index-No.: 615-012-00-7	(5 ≤ C ≤ 100) Skin Irrit. 2; H315 (5 ≤ C ≤ 100) STOT SE 3; H335 (5 ≤ C ≤ 100) Eye Irrit. 2; H319

Carcinogen classification by inhalation applies only to powder mixtures with ≥1% titanium dioxide in particles ≤10 µm.

The stated isocyanate content is the weight percentage of the free monomer relative to the total mixture.

For organic substances sold as either a single isomer or a mixture, the label must indicate which form is supplied.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Seek immediate medical advice.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for at least 15 minutes under running water.

Remove contact lenses and continue rinsing for several minutes

Protect unharmed eye.

Seek immediate medical advice.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.



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4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, foam, powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment:

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Make sure there is enough air circulation.

Avoid breathing in fumes.

Stay away from sources of ignition.

Wear safety gear when necessary. Keep vulnerable people at a distance.

Put on safety gear. Avoid skin and eye contact.

6.1.1 For non-emergency personnel Stay away from any leaking or flowing substances.

6.1.2 For emergency responders

Protective gear, gloves, goggles, and a breathing device with a type A filter are required for first-aid rescuers.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up:

Utilize absorbent material to collect (sand, diatomite).

Make sure there is enough airflow.

Utilize a liquid binding substance to absorb liquid components.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

If applied effectively, no further safety measures are required.

Assure enough exhaustion and airflow at the worksite.

Avoid inhaling vapors.

Avoid eating, drinking, and smoking while using the product.

Avoid skin and eye contact.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Preserve the container tightly locked.

To avoid leaks, keep containers firmly in place and upright.

Requirements to be met by storerooms and receptacles:

Retain in a cold environment.

Don't let any liquid soak into the ground.

Receptacles should have ventilation.

Information about storage in one common storage facility:

Keep away from food.

Keep away from water.

Further information about storage conditions: Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA)	0.02 mg/m ³
WEL STEL (OEL STEL)	0.07 mg/m ³

Calcium oxide (1305-78-8)

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	1 mg/m ³ (Respirable fraction)
IOEL STEL	4 mg/m ³ (Respirable fraction)
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164



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Belgium - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
OEL STEL	4 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	1 mg/m ³
VLE (OEL C/STEL)	4 mg/m ³
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	1 mg/m ³ (respirabel)
	0.43 ppm
TGG-15min (OEL STEL)	4 mg/m ³ (respirabel)
	1.7 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	2 mg/m ³
	1 mg/m ³
WEL STEL (OEL STEL)	4 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³



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Titanium Dioxide (13463-67-7)

Belgium - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	10 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	10 mg/m ³
	4 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.2 mg/m ³ (Respirable fraction)
	2.5 mg/m ³ (Respirable fraction)

DNELs & PNECs

No additional information available.

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid food, drink, and feed.

Prior to breaks and after work, wash your hands.

Keep your hands away from your skin and eyes.

Avoid eating, drinking, and smoking while using the product.

Avoid inhaling mists or vapors.

Protective clothes should be kept apart.

Respiratory protection



In cases of inadequate ventilation, use an appropriate respiratory protection gear. Respiratory protection is necessary while spraying and in poorly ventilated work spaces. For brief durations of labor, a charcoal filter and particle filter A2-P2 (EN529) combination mask or an air-fed mask are advised.



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Hand protection



Protective gloves resistant to chemicals (standard EN 374-1)

The material used for the gloves must be waterproof and resistant to the product, substance, or preparation. No advice for the glove material for the product, preparation, or chemical mixture can be made due to a lack of studies. Choose the glove material while taking the degradation, diffusion, and penetration rates into account.

Material of gloves

Hand protection when handling the product at room temperature:

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Recommendation: contaminated gloves should be disposed of.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection



Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:



Chemically resistant, protective work clothing (EN 14605)

Environmental exposure controls

Prevent enter of the product into drains, surface and groundwater and soil.

Dispose of flushing liquids in accordance with local and national regulations.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour	Grey
Appearance	Paste
Odour	Characteristic
Odour threshold	Not determined
Melting point/freezing point	Not determined
Flammability	Not applicable
Lower and upper explosion limit Lower: Upper:	Not determined Not determined
Flash point	Not Flammable
Auto-ignition temperature	Product is not self igniting
Decomposition temperature	Not determined
pH	Not determined



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Viscosity Kinematic viscosity:	> 1724137,931 mm ² /s
Dynamic viscosity	> 2000000 cP
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure	Not determined
Vapour pressure at 50°C	Not determined
Density and/or relative density Density at 20 °C: Relative density Vapour density	1.12-1.18 g/cm ³ Not determined Not determined

9.2 Other information

Information with regard to physical hazard classes

No additional information available

Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided Stable at environment temperature.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Avoid heat, sparkles, naked flame or other sources of ignition.

10.5 Incompatible materials No further relevant information available



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

4 -isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)		
Oral	LD50	2330 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Calcium oxide (1305-78-8)		
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2500 mg/kg (rabbit)
Inhalation	LC50	> 6.04 mg/l (rat)
Titanium Dioxide (13463-67-7)		
Oral	LD50	> 5000 mg/kg (rat)
Inhalation	LC50	> 5.09 mg/l (rat)
reaction mass of ethylbenzene and xylene (no CAS number)		
Dermal	LD50	12126 mg/kg (rabbit)



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Skin corrosion/irritation Not classified

Calcium oxide (1305-78-8): pH: ≈ 12 at 20 C

Titanium Dioxide (13463-67-7): pH: 7 – 8.5

Serious eye damage/irritation Not classified

Calcium oxide (1305-78-8): pH: ≈ 12 at 20 C

Titanium Dioxide (13463-67-7): pH: 7 – 8,5

Respiratory or skin sensitisation Inhalation may trigger allergic reactions, asthma symptoms, or breathing difficulties.

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

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

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8): IARC group: 3
- Not classified

Titanium Dioxide (13463-67-7): IARC group: 2B - Possibly carcinogenic to humans

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

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

4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1): STOT-single exposure: May cause respiratory irritation.

Calcium oxide (1305-78-8): STOT-single exposure: May cause respiratory irritation.

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8): STOT-single exposure: May cause respiratory irritation.

reaction mass of ethylbenzene and xylene (no CAS number): STOT-single exposure: May cause respiratory irritation.

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

Calcium oxide (1305-78-8):

Oral	LOAEL	300 mg/kg (rat)
Oral	NOAEL	1000 mg/kg (rat)
Inhalation	NOAEC	0.413 mg/l (rat)

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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reaction mass of ethylbenzene and xylene (no CAS number)		
Oral	LOAEL	150 mg/kg (rat)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	

Aspiration hazard: Not classified

4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)	
Viscosity, kinematic	0 mm ² /s
Calcium oxide (1305-78-8)	
Viscosity, kinematic	Not applicable
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
Viscosity, kinematic	Not applicable
Titanium Dioxide (13463-67-7)	
Viscosity, kinematic	Not applicable (solid)
reaction mass of ethylbenzene and xylene (no CAS number)	
Viscosity, kinematic	≈ 0,76 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'

11.2 Information on other hazards

None of the ingredients is listed.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

EC50 (48h)	> 100 mg/l (Crustacea)
LC50 (96h)	> 45 mg/l (fish)
EC50 72h	30 mg/l (Algae)

4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

EC50 (72h)	25 mg/l (Algae)
ErC50	30 mg/l (Algae)

Calcium oxide (1305-78-8)

LC50	50.6 mg/l (Fish)
EC50	49.1 mg/l (Crustacea)
EC50 (72h)	184.57 mg/l (Algae)
EC50 (96h)	1130.3 mg/l (Algae)
ErC50	184.57 mg/l (Algae)
NOEC	32 mg/l (chronic)

Titanium Dioxide (13463-67-7)

LC50	> 100 mg/l (Fish)
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EC50 (48h)	> 100 mg/l (Crustacea)
EC50	19.3 mg/l (Crustacea)
EC50	27.8 mg/l (Crustacea)
EC50	> 100 mg/l (Other Aquatic Organisms)
EC50 (72h)	> 100 mg/l (Algae)
ErC50	61 mg/l (Algae)
LOEC	5 mg/l (Chronic)
LOEC	$\geq$ 2.92 mg/l (Chronic)

reaction mass of ethylbenzene and xylene (no CAS number)

EC50	> 3.4 mg/l (Crustacea)
LOEC	3.16 mg/l (Chronic)
NOEC	> 1.3 mg/l (Chronic Fish)

12.2 Persistence and degradability

Persistence and degradability: Highly degradable

4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1): Highly biodegradable in water

Calcium oxide (1305-78-8): No further information available

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8): Highly degradable

Titanium Dioxide (13463-67-7): No further information available

Reaction mass of ethylbenzene and xylene (no CAS number): Highly degradable

12.3 Bioaccumulative potential

4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

Partition coefficient n-octanol/water (Log Pow): 0.6

Bioaccumulative potential: Low



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Calcium oxide (1305-78-8)

Bioaccumulative potential: No

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

Partition coefficient n-octanol/water (Log Pow): $\approx 4,51$

Titanium Dioxide (13463-67-7)

Bioaccumulative potential: No

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII: 4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1), Calcium oxide (1305-78-8), 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8), Titanium Dioxide (13463-67-7), reaction mass of ethylbenzene and xylene (no CAS number)

vPvB: Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII: 4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1), Calcium oxide (1305-78-8), 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8), Titanium Dioxide (13463-67-7), reaction mass of ethylbenzene and xylene (no CAS number)

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Dispose according to National Regulations.

Not to be disposed of with regular trash. Do not let product enter the drainage system.

Do not reuse empty containers.

European List of Waste (LoW, EC 2000/532):

- 08 04 09 – Waste adhesives and sealants containing organic solvents or other hazardous substances
- 15 01 10 – Packaging contaminated by or containing residues of hazardous substances

HP Codes:

- HP7 – Carcinogenic: Waste that may cause cancer or increase its occurrence
- HP4 – Irritant (skin and eyes): Waste that may cause skin irritation or eye damage

R/D Code (Recovery/Disposal, EU 2008/98):

- R12 – Exchange of waste for processing through operations R1 to R11

Uncleaned packaging:

Recommendation: Official guidelines must be followed while disposing materials.

SECTION 14: Transport information

14.1 UN number or ID number ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name ADR, ADN, IMDG, IATA Void



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14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class Void

14.4 Packing group ADR, IMDG, IATA Void

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

UN "Model Regulation": Void

SECTION 15: Regulatory information

15.1.1 EU Regulations

REACH Annex XVII (Restriction List)

Entry 56: 4,4'-Methylenediphenyl diisocyanate (MDI); Diphenylmethane-4,4'-diisocyanate

Entry 56(a): MDI isomers including 4,4'-Methylenediphenyl diisocyanate

Entry 74: Diisocyanates ($\text{O}=\text{C}=\text{N}-\text{R}-\text{N}=\text{C}=\text{O}$) with R as an aliphatic or aromatic hydrocarbon unit of unspecified length

REACH Annex XIV (Authorisation List): No substances listed.

REACH Candidate List (SVHC): No substances listed.

PIC Regulation (EU 649/2012): No substances listed for export/import of hazardous chemicals.

POP Regulation (EU 2019/1021): No substances listed for persistent organic pollutants.

Ozone Regulation (EU 1005/2009): No substances listed for ozone-depleting potential.

Council Regulation (EC) for Dual-Use Items: No substances listed.

Explosives Precursors Regulation (EU 2019/1148): No substances listed.

Drug Precursors Regulation (EC 273/2004): No substances listed.

15.1.2. EU & National Regulations

Germany:

WGK: 3 (Highly hazardous to water, AwSV Annex 1)

Hazardous Incident Ordinance: Not applicable

Netherlands:

No components listed on SZW lists for carcinogenic, mutagenic, or reprotoxic substances

Denmark:

Not for use by individuals <18 years

Pregnant/breastfeeding women must avoid contact

Persons with asthma, eczema, chronic lung diseases, or isocyanate allergies should not handle the product

Must comply with Danish Working Environment Authority regulations for epoxy resins, isocyanates, and carcinogens

15.2 Chemical Safety Assessment: No chemical safety assessment performed



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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.

EUH204 Contains isocyanates. May produce an allergic reaction.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.



Department issuing SDS:

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Version number of previous version: 1

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic



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SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

*** Data compared to the previous version altered.**