

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **5030 PowerSeal PU Sealing&Bonding Mastic**
Creation date: **31.1.2008** · Revision: **19.6.2019** · Version: **1**

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

5030 PowerSeal PU Sealing&Bonding Mastic



chemius.net/2Do7a

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

Relevant identified uses

Sealing adhesive.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Supplier

SILCO, D.O.O.
Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia
Phone: +386 3 703 3180
Fax: +386 3 703 3188
E-mail: n.cvilak@silco-automotive.com
Point of contact for safety info: Nejc Cvilak

1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin Sens. 1; H317 May cause an allergic skin reaction.

Resp. Sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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2.2 Label elements

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



Signal word: **Danger**

H317 May cause an allergic skin reaction.

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

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P280 Wear protective gloves.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with national regulation.

2.2.2. Contains:

'4,4'-methylenediphenyl diisocyanate (CAS: 101-68-8, EC: 202-966-0, Index: 615-005-00-9)

reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (EC: 915-687-0)

2.2.3. Special provisions

MDI notice

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.

Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product description

Adhesive containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

3.1. Substances

For mixtures see 3.2.

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3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
Polyvinyl chloride	9002-86-2 - -	20-50	not classified		-
xylene [C]	1330-20-7 215-535-7 601-022-00-9	4-7	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332		01-2119488216-32
Titanium dioxide (TiO2)	13463-67-7 236-675-5 -	<5	not classified		01-2119489379-17
calcium oxide	1305-78-8 215-138-9 -	<2	Skin Irrit. 2; H315 Eye Dam. 1; H318		01-2119475325-36
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	- 926-141-6 -	<2	Asp. Tox. 1; H304		01-2119456620-43
ethylbenzene	100-41-4 202-849-4 601-023-00-4	<2	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs)		01-2119489370-35
Calcium dihydroxide	1305-62-0 215-137-3 -	<1	Skin Irrit. 2; H315 Eye Dam. 1; H318		01-2119475151-45
'4,4'-methylenediphenyl diisocyanate [C]	101-68-8 202-966-0 615-005-00-9	<0,5	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 4; H332 Resp. Sens. 1; H334 STOT SE 3; H335 Carc. 2; H351 STOT RE 2; H373	Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; Acute Tox. 4; H332 H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	01-2119457014-47
Carbon	1333-86-4 215-609-9 -	<0,5	not classified		01-2119384822-32
Diiron trioxide (Fe2O3)	1309-37-1 215-168-2 -	<0,5	not classified		01-2119457614-35
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	- 915-687-0 -	<0,5	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		01-2119491304-40

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Notes for substances:

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.
In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

Take off all contaminated clothing immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If victim is not breathing give artificial respiration. Victim should rest in a warm place. If symptoms develop and persist, seek medical attention.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Rinse mouth thoroughly with water. Consult a physician.

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

Inhalation

May cause allergy or asthma symptoms or breathing difficulties if inhaled
Cough, headache, shortness of breath, dizziness.

Skin contact

Contact with skin may cause irritation (redness, itching).
May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.
May cause nausea/vomiting and diarrhea.

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

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SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Fire extinguishing powder.
Carbon dioxide (CO₂).
Foam.

Unsuitable extinguishing media

Full water jet.

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. Exposure to decomposition products may be hazardous to health.

Carbon monoxide (CO).

Nitrogen oxides (NO_x).

Hydrogen cyanide (HCN). Isocyanates.

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation. Evacuate the danger zone. Avoid contact with skin, eyes and clothing. Do not breathe vapour or mist.

6.1.2. For emergency responders

During intervention, use personal protective equipment (Section 8).

6.2. Environmental precautions

Do not allow to enter water/drains/sewerage. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

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6.3.2. For cleaning up

Take up mechanically and collect in suitable container and dispose according to current regulations. Dispose in suitable container and allow to stand for 48 hours to avoid possible pressure increase because of the gas that generated at reaction. Dispose in accordance with applicable regulations (see Section 13).

6.3.3. Other information

See Section 7: safe handling.

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Protect from open fire and other sources of ignition or heat.

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Measures to prevent aerosol and dust generation

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Measures to protect the environment

-

7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Keep in a dry place. Keep in tightly closed container.

7.2.2. Packaging materials

-

7.2.3. Requirements for storage rooms and vessels

-

7.2.4. Storage class

-

7.2.5. Further information on storage conditions

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7.3. Specific end use(s)

Recommendations

-

Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
Calcium hydroxide (1305-62-0)	-	5	-	-		
Calcium oxide (1305-78-8)	-	2	-	-		
Carbon black (1333-86-4)	-	3,5	-	7		
Ethylbenzene (100-41-4)	100	441	125	552	Sk	
Iron oxide, fume (as Fe) (1309-37-1)	-	5	-	10		
Polyvinyl chloride inhalable dust (9002-86-2)	-	10	-	-		
Polyvinyl chloride respirable dust (9002-86-2)	-	4	-	-		
Rouge total inhalable (1309-37-1)	-	10	-	-		
Rouge respirable (1309-37-1)	-	4	-	-		
Titanium dioxide total inhalable (13463-67-7)	-	10	-	-		
Titanium dioxide respirable (13463-67-7)	-	4	-	-		

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Xylene, o-,m-,p- or mixed isomers (1330-20-7)	50	220	100	441	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift
Polyvinyl chloride (9002-86-2)		10			TWA 8h (inhalable fraction); EH40/2005 (UK)	
Polyvinyl chloride (9002-86-2)		4			TWA 8h (respiratory fraction); EH40/2005 (UK)	
xylene (1330-20-7)	50	220	100	441	EH40/2005	
Titanium dioxide (TiO ₂) (13463-67-7)		10			TWA 8h (inhalable fraction); EH40/2005 (UK)	
Titanium dioxide (TiO ₂) (13463-67-7)		4			TWA 8h (respiratory fraction); EH40/2005 (UK)	
calcium oxide (1305-78-8)		2			EH40/2005	
ethylbenzene (100-41-4)	100	442			Europe ILV (Indicati)	
ethylbenzene (100-41-4)	100	440			TWA, Germany	
ethylbenzene (100-41-4)	100	440			TWA, SI OEL	
ethylbenzene (100-41-4)	100	441	125	552	EH40/2005	
Calcium dihydroxide (1305-62-0)		5			TWA 8h; EH40/2005 (UK)	
'4,4'-methylenediphenyl diisocyanate (101-68-8)		0,02		0,07	Sen; The United Kingdom	
Carbon (1333-86-4)		3,5			TWA 8h; EH40/2005 (UK)	
Diiron trioxide (Fe ₂ O ₃) (1309-37-1)		4			TWA/8h, WEL, UK	
Diiron trioxide (Fe ₂ O ₃) (1309-37-1)		5			TWA/8h, TLV-ACGIH	
Diiron trioxide (Fe ₂ O ₃) (1309-37-1)		10			TWA 8h (inhalable fraction); EH40/2005 (UK)	
Diiron trioxide (Fe ₂ O ₃) (1309-37-1)		4			TWA 8h (respiratory fraction); EH40/2005 (UK)	
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (-)		4			TWA/8h, WEL, UK	

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reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (-)	5			TWA/8h, TLV-ACGIH
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (-)	10			TWA 8h (inhalable fraction); EH40/2005 (UK)
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (-)	4			TWA 8h (respiratory fraction); EH40/2005 (UK)

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
xylene (1330-20-7)	Worker	dermal	long term (systemic effects)	180 mg/kg	
xylene (1330-20-7)	Worker	inhalation	short term (systemic effects)	289 mg/m ³	
xylene (1330-20-7)	Worker	inhalation	long term (systemic effects)	77 mg/m ³	
Titanium dioxide (TiO ₂) (13463-67-7)	Worker	inhalation	long term (local effects)	10 mg/m ³	
Titanium dioxide (TiO ₂) (13463-67-7)	Consumer	oral	long term (systemic effects)	700 mg/kg bw/day	
ethylbenzene (100-41-4)	Worker	dermal	long term (systemic effects)	180 mg/kg	
ethylbenzene (100-41-4)	Worker	inhalation	short term (local effects)	293 mg/m ³	
ethylbenzene (100-41-4)	Worker	inhalation	long term (systemic effects)	77 mg/m ³	
ethylbenzene (100-41-4)	Consumer	oral	long term (systemic effects)	1,6 mg/kg	
ethylbenzene (100-41-4)	Consumer	inhalation	long term (systemic effects)	15 mg/m ³	
Calcium dihydroxide (1305-62-0)	Worker	inhalation	short term (local effects)	4 mg/m ³	
Calcium dihydroxide (1305-62-0)	Worker	inhalation	long term (local effects)	1 mg/m ³	

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Calcium dihydroxide (1305-62-0)	Consumer	inhalation	short term (local effects)	4 mg/m ³	
Calcium dihydroxide (1305-62-0)	Consumer	inhalation	long term (local effects)	1 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Worker	inhalation	long term (local effects)	0,05 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Consumer	inhalation	long term (local effects)	0,025 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Worker	inhalation	short term (local effects)	0,1 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Consumer	inhalation	short term (local effects)	0,05 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Consumer	dermal	short term (systemic effects)	25 mg/kg bw/day	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Consumer	inhalation	short term (systemic effects)	0,05 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Consumer	oral	short term (systemic effects)	20 mg/kg bw/day	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Consumer	dermal	short term (local effects)	17,2 mg/cm ²	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Consumer	inhalation	long term (systemic effects)	0,025 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Worker	dermal	short term (systemic effects)	50 mg/kg bw/day	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Worker	inhalation	short term (systemic effects)	0,1 mg/m ³	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Worker	dermal	short term (local effects)	28,7 mg/cm ²	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	Worker	inhalation	long term (systemic effects)	0,05 mg/m ³	
Carbon (1333-86-4)	Worker	inhalation	long term (systemic effects)	1 mg/m ³	
Carbon (1333-86-4)	Consumer	inhalation	long term (systemic effects)	0,06 mg/m ³	
Diiron trioxide (Fe ₂ O ₃) (1309-37-1)	Worker	inhalation	long term (local effects)	10 mg/m ³	
Diiron trioxide (Fe ₂ O ₃) (1309-37-1)	Worker	inhalation	long term (systemic effects)	3 mg/m ³	
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (-)	Worker	inhalation	long term (local effects)	10 mg/m ³	
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (-)	Worker	inhalation	long term (systemic effects)	3 mg/m ³	

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8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
xylene (1330-20-7)	soil	2,31 mg/kg	
xylene (1330-20-7)	fresh water	0,327 mg/L	
xylene (1330-20-7)	fresh water sediment	12,46 mg/kg	
xylene (1330-20-7)	marine water	0,327 mg/L	
xylene (1330-20-7)	marine water sediment	12,46 mg/kg	
Titanium dioxide (TiO ₂) (13463-67-7)	fresh water	0,127 mg/L	
Titanium dioxide (TiO ₂) (13463-67-7)	fresh water sediment	1000 mg/kg	
Titanium dioxide (TiO ₂) (13463-67-7)	marine water	1 mg/L	
Titanium dioxide (TiO ₂) (13463-67-7)	marine water sediment	100 mg/kg	
Titanium dioxide (TiO ₂) (13463-67-7)	water treatment plant	100 mg/L	
Titanium dioxide (TiO ₂) (13463-67-7)	soil	106,8 mg/kg	
calcium oxide (1305-78-8)	fresh water	0,37 mg/L	
calcium oxide (1305-78-8)	marine water	0,24 mg/L	
ethylbenzene (100-41-4)	water treatment plant	9,6 mg/L	
ethylbenzene (100-41-4)	soil	2,68 mg/kg	
ethylbenzene (100-41-4)	water, intermittent release	0,1 mg/L	
ethylbenzene (100-41-4)	food chain	20 g/kg	oral
ethylbenzene (100-41-4)	fresh water	0,1 mg/L	
ethylbenzene (100-41-4)	marine water	0,01 mg/L	
ethylbenzene (100-41-4)	fresh water sediment	13,7 mg/kg	
ethylbenzene (100-41-4)	marine water sediment	1,37 mg/kg	
Calcium dihydroxide (1305-62-0)	fresh water	0,49 mg/L	
Calcium dihydroxide (1305-62-0)	marine water	0,32 mg/L	
Calcium dihydroxide (1305-62-0)	water, intermittent release	0,49 mg/L	
Calcium dihydroxide (1305-62-0)	water treatment plant	3 mg/L	
Calcium dihydroxide (1305-62-0)	soil	1080 mg/kg dw	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	fresh water	1 mg/L	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	marine water	0,1 mg/L	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	soil	1 mg/kg dw	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	water, intermittent release	10 mg/L	
'4,4'-methylenediphenyl diisocyanate (101-68-8)	water treatment plant	1 mg/L	
Carbon (1333-86-4)	fresh water	50 mg/L	

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not eat, drink or smoke while working.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Do not eat, drink or smoke while working.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

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8.2.2. Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN 374). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The product consists of various substances, therefore the resistance of gloves can not be calculated and has to be tested before use.

Appropriate materials

Material	Thickness	Penetration Time	Remark
PVA			

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. In case of insufficient ventilation wear mask with filter A (EN 14387). Protective mask (EN 136: 1998) or half mask (EN 140: 1999) with filter B (EN 14387: 2004).

Thermal hazards

-

8.2.3. Environmental exposure controls

-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	Physical state:	liquid; paste
-	Colour:	Various colors
-	Odour:	mild

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Important health, safety and environmental information

- pH	No information.
- Melting point/freezing point	No information.
- Initial boiling point/boiling range	137 °C
- Flash point	> 75 °C (ISO 3679)
- Evaporation rate	No information.
- Flammability (solid, gas)	No information.
- Explosion limits (vol%)	0,6 – 7 vol %
- Vapour pressure	No information.
- Vapour density	No information.
- Density	Relative density: 1,15 at 20 °C
- Solubility	Water: insoluble Organic solvent: Completely soluble 120 g/l
- Partition coefficient	No information.
- Auto-ignition temperature	> 200 °C
- Decomposition temperature	No information.
- Viscosity	No information.
- Explosive properties	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
- Oxidising properties	No information.

9.2. Other information

- Weight organic solvents	< 9 % (1999/13/EC)
- Remarks:	

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

-

10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

Reacts with alcohols, amines, aqueous acids and alkalis.

10.4. Conditions to avoid

Avoid high temperatures. Reacts with water forming carbon dioxide CO₂. Because of the high vapour pressure, containers are liable to burst if temperature rises.

10.5. Incompatible materials

Alkalis

Acids. Amines. Alcohols. Water.

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10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

Carbon monoxide (CO).

Nitrogen oxides.

Hydrogen cyanide. Isocyanat;

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
xylene (1330-20-7)	oral	LD ₅₀	rat		8700 mg/kg		
xylene (1330-20-7)	dermal	LD ₅₀	rabbit		2000 mg/kg		
xylene (1330-20-7)	inhalation	LC ₅₀	rat	4 h	6350 mg/l		
ethylbenzene (100-41-4)	oral	LD ₅₀	rat		3500 mg/kg		
ethylbenzene (100-41-4)	dermal	LD ₅₀	rabbit		17800 mg/kg		

Additional information: The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
For product			Can cause mild irritation.		

(c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
For product	rabbit		not irritating	OECD 405	
For product			Can cause mild irritation.		

(d) Respiratory or skin sensitisation

Additional information: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

Additional information: STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

Additional information: STOT RE (repeated exposure): Not classified.

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(j) Aspiration hazard

Additional information: Aspiration hazard: Not classified.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

No information.

12.1.2. Chronic (long-term) toxicity

No information.

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

No information.

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

No information.

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

No information.

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Water hazard class 2 (self-assessment): hazardous for water.

SECTION 13. DISPOSAL CONSIDERATIONS

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13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Waste is suitable for incineration in authorised incineration plants. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

Not applicable.

14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.2. Chemical Safety Assessment

The chemical safety assessment has been made.

SECTION 16. OTHER INFORMATION

Indication of changes

-

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC₅₀ - Lethal Concentration to 50 % of a test population
LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development

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- OEL - Occupational Exposure Limit
- OJ - Official Journal
- OR - Only Representative
- OSHA - European Agency for Safety and Health at work
- PBT - Persistent, Bioaccumulative and Toxic substance
- PEC - Predicted Effect Concentration
- PNEC(s) - Predicted No Effect Concentration(s)
- PPE - Personal Protection Equipment
- (Q)SAR - Qualitative Structure Activity Relationship
- REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
- RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
- RIP - REACH Implementation Project
- RMM - Risk Management Measure
- SCBA - Self-Contained Breathing Apparatus
- SDS - Safety data sheet
- SIEF - Substance Information Exchange Forum
- SME - Small and Medium sized Enterprises
- STOT - Specific Target Organ Toxicity
- (STOT) RE - Repeated Exposure
- (STOT) SE - Single Exposure
- SVHC - Substances of Very High Concern
- UN - United Nations
- vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

-

List of relevant H 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 .
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.