



BE SURE. BUILD SURE.

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Safety data sheet according to UK REACH

Printing date 11.04.2025

Version number 64 (replaces version 63)

Revision: 11.04.2025

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

· **1.1 Product identifier**

· **Trade name** MC-DUR 1277 WV - Komponente B

· **Article number:** 38

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

No further relevant information available.

· **Application of the substance / the mixture**

Epoxy impregnation
Hardening agent/ Curing agent

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:** MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8
D-46238 Bottrop
Tel.: +49(0)2041-101-0
Fax.: +49(0)2041-101-400
E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG
Hagackerstr. 10
CH-8953 Dietikon
Tel.: +44-7400510
Fax : +44-7400533

· **Informing department:** msds@mc-bauchemie.de

· **1.4 Emergency telephone number:**

Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +1 872 5888271 (MCR)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to**

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms



GHS02 GHS05 GHS07 GHS08 GHS09

· Signal word

Danger

· Hazard-determining components of labelling:

*Fatty acids, tall-oil, reaction products with bisphenol A, alkyl glycidyl tolyl ether and triethylenetetramine
Isophorone diamine
Reaction mass of ethylbenzene and xylene
Tetraethylenepentamine
Phenol, mono- and distyrolised
Polymer with amino-functional groups
Triethylenetetramine*

· Hazard statements

*H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.*

· Precautionary statements

*H410 Very toxic to aquatic life with long lasting effects.
P260 Do not breathe dusts or mists.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.*

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- PBT:** Not applicable.
- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

*Binding agent with colouring agents.
Mixture consisting of the following components.*

· Dangerous components:

CAS: 186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, alkyl glycidyl tolyl ether and triethylenetetramine Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	30-60%
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<p>EC number: 905-588-0 Reg.nr.: 01-2119488216-32 01-2119486136-34</p>	<p>Reaction mass of ethylbenzene and xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</p>	<p>≥10-<20%</p>
<p>CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32</p>	<p>Isophorone diamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 ATE: LD50 oral: 1030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥0.001 %</p>	<p>≥10-<25%</p>
<p>EC number: 949-140-2</p>	<p>Polymer with amino-functional groups Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317</p>	<p>≥3-<10%</p>
<p>CAS: 64-17-5</p>	<p>Ethanol (ethyl alcohol) Flam. Liq. 2, H225; Eye Irrit. 2, H319</p>	<p><10%</p>
<p>CAS: 100-51-6 EINECS: 202-859-9</p>	<p>Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319</p>	<p><10%</p>
<p>CAS: 8000-41-7</p>	<p>Terpineol Skin Irrit. 2, H315; Eye Irrit. 2, H319</p>	<p><5%</p>
<p>CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-xxxx</p>	<p>1-Methoxy-2-propanol Flam. Liq. 3, H226; STOT SE 3, H336</p>	<p><3%</p>
	<p>Phenol, mono- and distyrolised Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317</p>	<p>≥2.5-<3%</p>
<p>CAS: 90640-66-7 EINECS: 292-587-7 Reg.nr.: 01-2119487290-37</p>	<p>Tetraethylenepentamine Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317</p>	<p>≥2.5-<3%</p>
<p>CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 2119560597-27</p>	<p>2,4,6-Tri-(dimethylaminomethyl)phenol Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302</p>	<p>≥1-<2.5%</p>
<p>CAS: 90640-67-8 EINECS: 292-588-2</p>	<p>Triethylenetetramine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412</p>	<p>≥1-<2.5%</p>
<p>CAS: 69-72-7 EINECS: 200-712-3</p>	<p>Salicylic acid Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302</p>	<p>≥1-<2.5%</p>

· **Additional information**

For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information** Remove contaminated clothing immediately. Consult a doctor if symptoms occur. Move affected person to fresh air.
- **After inhalation** Supply fresh air; seek medical advice if symptoms occur. If unconscious, place in recovery position and seek medical advice.
- **After skin contact** In case of contact with skin, wash carefully with plenty of soap and water. Consult a doctor in case of skin reactions.
- **After eye contact** Rinse opened eye for several minutes under running water. Call a doctor immediately
- **After swallowing** Rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If symptoms persist, consult a doctor.

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

Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Open and handle containers with care. Ventilation measures are required in rooms without sufficient air exchange (e.g. closed rooms), because the occupational exposure limit values (see chapter 8) could be exceeded. This must be avoided. Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy resins.

· **Information about protection against explosions and fires:**

Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

No special requirements.

· **Further information about storage conditions:**

Keep container tightly closed in a well-ventilated place.

· **Storage class**

3

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

CAS: 64-17-5 Ethanol (ethyl alcohol)

WEL Long-term value: 1920 mg/m³, 1000 ppm

CAS: 107-98-2 1-Methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

Sk

· **DNELs**

Reaction mass of ethylbenzene and xylene

Oral DNEL 1.6 mg/kg bw/Tag (ArL)
mg/kg bw/Tag (Workers)

Dermal DNEL 180 mg/kg bw/day (ArL)

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Inhalative	DNEL	211 mg/m ³ (ArL)
CAS: 2855-13-2 Isophorone diamine		
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)
Inhalative	DNEL	20.1 mg/m ³ (ArL)
CAS: 100-51-6 Benzyl alcohol		
Oral	DNEL	4 mg/kg bw/Tag (ArL) 20 mg/kg bw/Tag (Ark)
Dermal	DNEL	8 mg/kg bw/day (ArL) 40 mg/kg bw/day (Ark)
Inhalative	DNEL	22 mg/m ³ (ArL) 110 mg/m ³ (Ark)
CAS: 107-98-2 1-Methoxy-2-propanol		
Oral	DNEL	3.3 mg/kg bw/Tag (ArL)
Dermal	DNEL	50.6 mg/kg bw/day (ArL)
Inhalative	DNEL	369 mg/m ³ (ArL)
CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol		
Inhalative	DNEL	0.31 mg/m ³ (ArL)
· PNECs		
CAS: 2855-13-2 Isophorone diamine		
PNEC	0.006 mg/l (Mew) 0.06 mg/l (Freshwater)	
PNEC	0.578 mg/kg dwt (Sediment) 5.784 mg/kg dwt (Fresh water sediment)	
CAS: 100-51-6 Benzyl alcohol		
PNEC	0.527 mg/l (Marine water sediment) 0.1 mg/l (Mew) 1 mg/l (Fresh water sediment)	
PNEC	0.456 mg/kg dwt (Bod) 5.27 mg/kg dwt (Fresh water sediment)	
CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol		
PNEC	0.2 mg/l (Sewage Treatment Plant) 0.0084 mg/l (Mew) 0.084 mg/l (Freshwater)	
· CAS No. Designation of material % Type Value Unit		
· Additional Occupational Exposure Limit Values for possible hazards during processing:		
CAS: 1330-20-7 xylene		
WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV	

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CAS: 100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m ³ , 125 ppm
	Long-term value: 441 mg/m ³ , 100 ppm
Sk	

- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **8.2 Exposure controls**
- **Appropriate engineering controls** *No further data; see section 7.*
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures** *Keep away from food, drink and animal feed.
Remove soiled, soaked clothing immediately.
Wash hands before breaks and at the end of work.
Avoid contact with eyes and skin.*
- **Breathing equipment:** *If workplace limit values cannot be complied with by ventilation measures or if rooms cannot be technically ventilated, respiratory protection must be worn: Use combination filter A1-P2 (brown/white) in rooms that cannot be ventilated. If oxygen deficiency is expected, use self-contained breathing apparatus. Observe wearing time limits according to §9 (3) GefStoffV in conjunction with BGR 190.*
- **Hand protection** *Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- **Material of gloves** *You can find help with choosing gloves on the website <https://www.bgbau.de/fileadmin/Gisbau/Projekte.pdf>
For example, we recommend the Sol-vex 37-900 protective gloves from Ansell GmbH. The breakthrough time of the protective gloves can be found under point 8 "Penetration time of the glove material". The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
Nitrile rubber
Recommended material thickness: ≥ 0.4 mm*
- **Penetration time of glove material** *The breakthrough times of the Sol-vex 37-900 protective gloves are around 8 hours.
The following applies to all other gloves:
The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.
Nitrile rubber
Material thickness: ≥ 0.40 mm
Penetration time: ≥ 480 min
Butyl rubber:
Material thickness: ≥ 0.5 mm
Penetration time: ≥ 480 min*

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- **Eye/face protection** *Tight-fitting safety goggles.
Safety goggles.*
- **Body protection:** *Protective clothing
Suitable protective clothing should be worn when working with epoxy resins. In addition to normal work clothing (long trousers, long-sleeved shirt or T-shirt), disposable overalls, aprons, overshoes, sleeve protectors etc. may be necessary depending on the activity. Uncovered areas of skin should be avoided as far as possible, even in hot weather. If the work involves kneeling, the lower leg area should be protected by protective trousers.*

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

- **Colour:** *Light yellow*
- **Smell:** *Characteristic*
- **Melting point/freezing point:** *Not determined*
- **Boiling point or initial boiling point and boiling range** *136 °C (Reaction mass of ethylbenzene and xylene)*
- **Lower and upper explosion limit**
- **Lower:** *1 Vol % (Reaction mass of ethylbenzene and xylene)*
- **Upper:** *8 Vol % (Reaction mass of ethylbenzene and xylene)*
- **Flash point:** *25 °C*
- **Auto-ignition temperature:** *380 °C (CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine)*
- **pH** *Not determined.*
- **Viscosity:**
- **Kinematic viscosity at 20 °C** *200 s (DIN 53211/4)*
- **dynamic:** *Not determined.*
- **Solubility**
- **Water:** *Not miscible or difficult to mix*
- **Steam pressure at 20 °C:** *8 hPa (Reaction mass of ethylbenzene and xylene)*
- **Vapour pressure at 50 °C:** *45 hPa*
- **Density and/or relative density**
- **Density at 20 °C** *0.97 g/cm³*

· 9.2 Other information

- **Appearance:**
- **Form:** *Fluid*

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· Important information on protection of health and environment, and on safety.

- **Self-inflammability:** *Product is not selfigniting.*
- **Explosive properties:** *Product is not explosive. However, formation of explosive air/steam mixtures is possible.*

· Information with regard to physical hazard classes

- **Explosives** *Void*
- **Flammable gases** *Void*
- **Aerosols** *Void*
- **Oxidising gases** *Void*
- **Gases under pressure** *Void*
- **Flammable liquids** *Flammable liquid and vapour.*
- **Flammable solids** *Void*
- **Self-reactive substances and mixtures** *Void*
- **Pyrophoric liquids** *Void*
- **Pyrophoric solids** *Void*
- **Self-heating substances and mixtures** *Void*
- **Substances and mixtures, which emit flammable gases in contact with water** *Void*
- **Oxidising liquids** *Void*
- **Oxidising solids** *Void*
- **Organic peroxides** *Void*
- **Corrosive to metals** *Void*
- **Desensitised explosives** *Void*

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known*

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.*

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· LD/LC50 values that are relevant for classification:

Reaction mass of ethylbenzene and xylene

Oral	LD50	3523-4000 mg/kg (rat)
Dermal	LD50	1100 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (rat)

CAS: 2855-13-2 Isophorone diamine

Oral	LD50	1030 mg/kg (ATE) 1030 mg/kg (rat)
Dermal	NOAEL	250 mg/kg (rat)
	LD50	1840 mg/kg (rabbit) >2000 mg/kg (rat)
		1840 mg/kg (rabbit)

CAS: 64-17-5 Ethanol (ethyl alcohol)

Oral	LD50	7060 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (rat)

CAS: 100-51-6 Benzyl alcohol

Oral	LD50	1230 mg/kg (rat)
	NOAEL 2nd year study	200 mg/kg (mouse) 200 mg/kg (rat)
		2000 mg/kg (rabbit)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4178 mg/l (rat)

CAS: 107-98-2 1-Methoxy-2-propanol

Oral	LD50	4016 mg/kg (rat)
Dermal	LD50	13000 mg/kg (rabbit)
Inhalative	LC50/4 h	54.6 mg/l (rat)

CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol

Oral	LD50	mg/kg (rat)
	NOAEL	15 mg/kg (rat)

CAS: 90640-67-8 Triethylenetetramine

Oral	LD50	1716 mg/kg (rat)
Dermal	LD50	1465 mg/kg (rat)

CAS: 69-72-7 Salicylic acid

Oral	LD50	891 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

· Primary irritant effect:

· **Skin corrosion/irritation** Causes severe skin burns and eye damage.

· **Serious eye damage/irritation** Causes serious eye damage.

· **Respiratory or skin**

sensitisation May cause an allergic skin reaction.

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

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **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.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

CAS: 69-72-7 Salicylic acid

List II; III

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

Reaction mass of ethylbenzene and xylene

EC50/72h 2.2 mg/l (*Selenastrum capricornutum*)

LC50/96h 2.6 mg/l (*Oncorhynchus mykiss*)

NOEC 16 mg/l (BEL)

CAS: 2855-13-2 Isophorone diamine

LC50/96h 110 mg/l (fish)

110 mg/l (*Leucidus idus*)

EC50 1120 mg/l (*Pseudomonas putida*)

EC50/48h 23 mg/l (daphnia)

23 mg/l (*Daphnia magna*)

NOEC 1.5 mg/l (*Desmodesmus subspicatus*)

3 mg/l (*Daphnia magna*)

ErC50/72h >50 mg/l (*Desmodesmus subspicatus*)

>50 mg/l (algae)

CAS: 64-17-5 Ethanol (ethyl alcohol)

EC50/24h 858 mg/l (*Artemia salina*)

LC50/24h 11200 mg/l (*Salmo gairdneri*)

LC50/96h 15300 mg/l (*Pimephales promelas*)

EC50/4h 5800 mg/l (*Paramecium caudatum*)

LC50/48h 5012 mg/l (*Ceriodaphnia dubia*)

EC50/48h >10000 mg/l (*Daphnia magna*)

EC50/3d 275 mg/l (*Chlorella vulgaris*)

EC10/3d 11.5 mg/l (*Chlorella vulgaris*)

CAS: 100-51-6 Benzyl alcohol

IC50/72h 700 mg/l (algae)

LC50/96h 460 mg/l (*Pimephales promelas*)

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	10 mg/l (<i>Lepomis macrochirus</i>)
CAS: 107-98-2 1-Methoxy-2-propanol	
IC50	1000 mg/l (BEL)
LC50/96h	6812 mg/l (<i>Leucidus idus</i>)
LC50/48h	23300 mg/l (<i>Daphnia magna</i>)
EC50/48h	23300 mg/l (<i>Daphnia magna</i>)
CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol	
EC50/72h	84 mg/l (<i>Desmodesmus subspicatus</i>)
LC50/96h	175 mg/l (Cyp) 718 mg/l (<i>Daphnia magna</i>)
NOEC	2 mg/l (BEL) 6.25 mg/l (<i>Desmodesmus subspicatus</i>)

- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **12.6 Endocrine disrupting properties** *For information on endocrine disrupting properties see section 11.*
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** *Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.*

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** *Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** *Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.*

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN2733

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<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA 	<p>AMINES, FLAMMABLE, CORROSIVE, N.O.S. (ETHANOL, Tetraethylenepentamine), ENVIRONMENTALLY HAZARDOUS</p> <p>AMINES, FLAMMABLE, CORROSIVE, N.O.S. (ETHANOL, Tetraethylenepentamine), MARINE POLLUTANT</p> <p>AMINES, FLAMMABLE, CORROSIVE, N.O.S. (ETHANOL, Tetraethylenepentamine)</p>
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<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR · Class · Label 	<p>3 (FC) Flammable liquids. 3+8</p>
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<ul style="list-style-type: none"> · IMDG · Class · Label 	<p>3 Flammable liquids. 3/8</p>
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<ul style="list-style-type: none"> · IATA · Class · Label 	<p>3 Flammable liquids. 3 (8)</p>
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<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	<p>II</p>
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<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): 	<p>Product contains environmentally hazardous substances: Fatty acids, tall-oil, reaction products with bisphenol A, alkyl glycidyl tolyl ether and triethylenetetramine</p> <p>Yes Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
---	--

<ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: · Segregation groups · Stowage Category · Stowage Code · Segregation Code 	<p>Warning: Flammable liquids.</p> <p>38</p> <p>F-E,S-C</p> <p>(SGG18) Alkalis</p> <p>A</p> <p>SW2 Clear of living quarters.</p> <p>SG35 Stow "separated from" SGG1-acids</p>
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<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	<p>Not applicable.</p>
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<ul style="list-style-type: none"> · Transport/Additional information: · ADR · Limited quantities (LQ) 	<p>1L</p>
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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
<hr/>	
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2733 AMINES, FLAMMABLE, CORROSIVE, N . O . S . (E T H A N O L , TETRAETHYLENEPENTAMINE), 3 (8), II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Qualifying quantity (tonnes)
for the application of lower-
tier requirements** 100 t

· **Qualifying quantity (tonnes)
for the application of upper-
tier requirements** 200 t

· **15.2 Chemical safety
assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Relevant phrases**

H225 *Highly flammable liquid and vapour.*
H226 *Flammable liquid and vapour.*
H302 *Harmful if swallowed.*
H304 *May be fatal if swallowed and enters airways.*
H312 *Harmful in contact with skin.*
H314 *Causes severe skin burns and eye damage.*
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.*
H335 *May cause respiratory irritation.*
H336 *May cause drowsiness or dizziness.*
H361d *Suspected of damaging the unborn child.*
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.*
H411 *Toxic to aquatic life with long lasting effects.*
H412 *Harmful to aquatic life with long lasting effects.*

· **Department issuing data specification sheet:**

Environment protection department.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
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
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2

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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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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