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SEC	TION 1: Ide	entification of the	substance/mixtu	re and of the compa	ny/undertaking
1.1.	product id	entifiers			
		(manufacturer/supp e/designation	lier)	906 Härter zu EPODIT KLB	
1.2.	Relevant id	entified uses of the	substance or mixture	e and uses advised agai	nst
1.3.	Details of the	he supplier of the sa	fety data sheet		
			/downstream user/d i 5000 Aarau www.farb		
	D				
	laboratory l	t responsible for info	ormation:		
		npetent person)		info@knuchel.ch	
1.4.	Emergenc	y telephone numbe	r		
	Emergency	telephone number		145 (+41 (0)44 251 51	51)
SEC	TION 2: Ha	zards identificati	on		
2.1.	Classificat	ion of the substan	ce or mixture		
	Classificat	ion according to R	egulation (EC) No 1	272/2008 [CLP]	
	The mixture	e is classified as haz	ardous according to	regulation (EC) No 1272	2/2008 [CLP].
	Flam. Liq. 3 Acute Tox. Acute Tox. Skin Corr. Eye Dam. Skin Sens. Aquatic Ch	4 / H302 3 / H331 1B / H314 I / H318	Flammable liquids Acute toxicity (oral) Acute toxicity (inhala Skin corrosion/irritat Serious eye damage Respiratory or skin s Hazardous to the ac	tion e/eye irritation sensitisation	Flammable liquid and vapour. Harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
<u> </u>					

2.2. Label elements

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

Hazard pictograms





Hazard statements

Hazard statements	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
Precautionary stater	nents
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe vapour.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.

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P272		Contaminated work clothing should not l	be allowed out of the workplace.			
P273		Avoid release to the environment.				
P280		Wear protective gloves and eye/face pro	otection.			
P301 + P3	12	IF SWALLOWED: Call a POISON CENT	TER or doctor/physician if you feel unwell.			
P301 + P3	30 + P331	IF SWALLOWED: rinse mouth. Do NOT	induce vomiting.			
P302 + P3	52	IF ON SKIN: Wash with plenty of soap a	ind water.			
P303 + P3	61 + P353	IF ON SKIN (or hair): Take off immediate	ely all contaminated clothing. Rinse skin wi	th water [or shower].		
P304 + P3	40	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P305 + P3	51 + 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 or	doctor/ physician.			
P311		Call a POISON CENTER or doctor/physic	ician.			
P333 + P3	13	If skin irritation or rash occurs: Get medi	cal advice/attention.			
P362 + P3	64	Take off contaminated clothing and was	h it before reuse.			
P370 + P3	578	In case of fire: Use extinguishing powde	r or sand to extinguish.			
P403 + P2	33	Store in a well-ventilated place. Keep co	ntainer tightly closed.			
P403 + P2	35	Store in a well-ventilated place. Keep co	ool.			
P405		Keep locked up.				
P501		Dispose of contents/container to industri	ial incineration plant.			
Hazard co	omponents	for labelling benzyl alcohol M-Xylylenediamine 3-aminomethyl-3,5,5-trimethylcyclohexy 2,2,4(or 2,4,4)-trimethylhexane-1,6-diam				

Supplemental hazard information

not applicable

2.3. Other hazards

Description

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

polyamine hardener, containing the following hazardous substances:

EC No.	REACH No.	
CAS No. Index No.	Designation classification // Remark	weight-%
202-859-9 100-51-6 603-057-00-5	01-2119492630-38 benzyl alcohol Acute Tox. 4 H302 / Acute Tox. 4 H332 Acute toxicity estimate (ATE), ATE (oral): 1 mg/kg bw	40 - 60
220-666-8 2855-13-2 612-067-00-9	01-2119514687-32 3-aminomethyl-3,5,5-trimethylcyclohexylamine Acute Tox. 4 H312 / Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412 Acute toxicity estimate (ATE), ATE (oral): 1 mg/kg bw / ATE (dermal): 1840 mg/kg bw	25 - 40
216-032-5 1477-55-0	01-2119480150-50 M-Xylylenediamine Acute Tox. 4 H302 / Acute Tox. 3 H331 / Skin Corr. 1B H314 / Skin Sens. 1B H317 / Aquatic Chronic 3 H412 Acute toxicity estimate (ATE), ATE (oral): 1200 mg/kg bw	15 - 25
247-063-2 25513-64-8	01-2119560598-25 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine Acute Tox. 4 H302 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1 H317 Acute toxicity estimate (ATE), ATE (oral): 500 mg/kg bw	1 - 5

Additional information

Full text of classification: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. **Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers,

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equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

not applicable

DNEL:

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

DNEL acute dermal, short-term (systemic), Workers: 40 mg/kg

DNEL long-term dermal (systemic), Workers: 8 mg/kg

- DNEL acute inhalative (systemic), Workers: 110 mg/m³
- DNEL long-term inhalative (systemic), Workers: 22 mg/m³
- DNEL acute dermal, short-term (systemic), Consumer: 20 mg/kg
- DNEL long-term dermal (systemic), Consumer: 4 mg/kg
- DNEL acute inhalative (systemic), Consumer: 27 mg/m³
- DNEL long-term inhalative (systemic), Consumer: 5,4 mg/m³
- 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
- EC No. 247-063-2 / CAS No. 25513-64-8
- DNEL long-term oral (repeated), Workers: 0,05 mg/kg

PNEC:

benzyl alcohol

- Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6
- PNEC aquatic, freshwater: 1 mg/L
- PNEC aquatic, marine water: 0,1 mg/L
- PNEC aquatic, intermittent release: 2,3 mg/L
- PNEC sediment, freshwater: 5,27 mg/kg
- PNEC sediment, marine water: 0,527 mg/kg
- PNEC, soil: 0,456 mg/kg
- PNEC sewage treatment plant (STP): 39 mg/L
- 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
- EC No. 247-063-2 / CAS No. 25513-64-8
- PNEC aquatic, freshwater: 0,0295 mg/L
- PNEC aquatic, marine water: 0,0029 mg/L
- PNEC sediment, freshwater: 0,18 mg/kg

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PNEC sediment, marine water: 0,18 mg/kg

PNEC, soil: 0,019 mg/kg

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical p Physical state: Colour:	properties Liquid refer to label
	Odour:	characteristic
	Odour threshold:	not applicable
	Melting point/freezing point:	not applicable
	Initial boiling point and boiling range:	204 °C Source: benzyl alcohol
	Flammability:	Flammable liquid and vapour.
	Lower and upper explosion limit: Lower explosion limit: Upper explosion limit:	1.3 Vol-% 13 Vol-% Source: benzyl alcohol
	Flash point:	> 55 °C Method: DIN 53213
	Auto-ignition temperature:	435 °C Source: benzyl alcohol
	Decomposition temperature:	not applicable
	pH at 20 °C:	not applicable
	Cinematic viscosity (40°C):	> 700 mm²/s
	Viscosity at 20 °C: Solubility(ies):	100 - 200 mPas
	Water solubility at 20 °C:	partially soluble
	Partition coefficient: n-octanol/water:	see section 12
	Vapour pressure at 20 °C:	0.1 mbar Source: benzyl alcohol

Density and/or relative densit Density at 20 °C: Relative vapour density: particle characteristics: Other information	1.02 g/cm³ not applicable			
Relative vapour density: particle characteristics:	not applicable			
particle characteristics:				
-				
Other Information	not applicable	3		
Calid aantanti	60 woight %			
Solid content: solvent content:	60 weight-%			
Organic solvents: Water:	40 weight-% 0 weight-%			
ION 10: Stability and react	vity			
Reactivity No information available.				
Chemical stability Stable when applying the recor section 7.	nmended regulations for storage	and handling. Further information on correct storage: refer to		
		agents to avoid exothermic reactions.		
Conditions to avoid Hazardous decomposition bypr	oducts may form with exposure t	o high temperatures.		
Incompatible materials not applicable				
 Hazardous decomposition products Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. 				
ION 11: Toxicological info	mation			
Information on hazard classe	s as defined in Regulation (EC) No 1272/2008		
Acute toxicity				
Harmful if swallowed.				
Toxic if inhaled.				
dermal, LD50, Rabbit: 2 mg/kg oral, NOEL, Rat: 400 mg/kg oral, NOEL, Mouse: 200 mg/k)			
oral, LD50, Rat: 1,03 mg/kg	-			
Method: OECD 402 inhalative (vapours), LC50, Ra Method: OECD 403 oral, LD50, Rat, female: 980 n Method: OECD 401 dermal, LC50, Rat: 2000 mg/L 2,2,4(or 2,4,4)-trimethylhexane-	t: 1,34 mg/L (4 h) ng/kg (4 h)			
oral, LD50, Rat: 500 mg/kg				
	Reactivity No information available. Chemical stability Stable when applying the recom- section 7. Possibility of hazardous react Keep away from strong acids, st Conditions to avoid Hazardous decomposition bypro- ncompatible materials not applicable Hazardous decomposition bypro- moke, nitrogen oxides. ON 11: Toxicological infor moke, nitrogen oxides. ON 11: Toxicological infor mformation on hazard classes Acute toxicity Harmful if swallowed. Foxic if inhaled. Denzyl alcohol oral, LD50, Rat: 1,23 mg/kg dermal, LD50, Rat: 4,115 mg/kg dermal, LD50, Rat: 4,115 mg/kg dermal, LD50, Rat: 4,115 mg/kg dermal, LD50, Rat: 4,115 mg/kg dermal, LD50, Rat: 1,03 mg/kg oral, NOEL, Mouse: 200 mg/kg inhalative (vapours), NOAEC, 1 Method: OECD 412 B-aminomethyl-3,5,5-trimethylcy oral, LD50, Rat: 1,03 mg/kg dermal, LD50, Rat: 2000 mg/kg dermal, LD50, Rat: 1,03 mg/kg dermal, LD50, Rat: 2000 mg/kg	ON 10: Stability and reactivity Reactivity Volumbolic information available. Chemical stability Stable when applying the recommended regulations for storage vection 7. Possibility of hazardous reactions Geep away from strong acids, strong bases and strong oxidizing Conditions to avoid Hazardous decomposition byproducts may form with exposure to ncompatible materials Not applicable Hazardous decomposition products Hazardous decomposition byproducts may form with exposure to ncompatible materials Not applicable Hazardous decomposition products Hazardous decomposition byproducts may form with exposure to ncompatible materials Not applicable Hazardous decomposition byproducts may form with exposure to moke, nitrogen oxides. ON 11: Toxicological information Information on hazard classes as defined in Regulation (EC) Acute toxicity Harmful if swallowed. Toxic if inhaled. Nenzyl alcohol Oral, LD50, Rat: 1,23 mg/kg dermal, LD50, Rat: 4,115 mg/kg dermal, LD50, Rat: 4,115 mg/kg dermal, LD50, Rat: 4,115 mg/kg dermal, LD50, Rat: 1,03 mg/kg dermal, LD50, Rat: 1,00 mg/kg Method: OECD 402 Inhalative (vapours), LC50, Rat: 1,34 mg/L (4 h) Method: OECD 403 Oral, LD50, Rat: 2000 mg/kg Method: OECD 401 dermal, LC50, Rat		

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Causes	severe skin burns and	eye damage.		
Methoo non-irri eyes, F Methoo	Rabbit (4 h) d: OECD 404 (tant.; not corrosive	; not corrosive		
Skin, F Causes eyes	methyl-3,5,5-trimethyl abbit (4 h) s severe burns. s serious eye damage			
M-Xylyle Skin, F Directiv eyes, F	enediamine Rat (4 h) ve 67/548/EEC, Annex Rabbit (24 h) e eye irritation			
Skin (4 No dat eyes	2,4,4)-trimethylhexane h) a available a available	e-1,6-diamine		
Respira	tory or skin sensitisa	ition		
May cau	se an allergic skin rea	ction.		
	Icohol Guinea pig: ; Evaluation d: OECD 406	n not sensitising.		
Skin, G Method	methyl-3,5,5-trimethyl Guinea pig: ; Evaluation d: OECD 406 use an allergic skin re	positive		
Skin, M Methoo in-vivo Respira	nediamine louse: 1: Oecd 429 1: May cause sensitizat atory system: a available	ion by skin contact.		
Skin: No dat Respira	2,4,4)-trimethylhexane a available atory system: a available	e-1,6-diamine		
CMR eff	ects (carcinogenicity	η, mutagenicity and toxicity for re	production)	
Based Carcine Based Reproc	cell mutagenicity on available data, the ogenicity on available data, the ductive toxicity	classification criteria are not met. classification criteria are not met. classification criteria are not met.		
Germ o Based Carcino Based	ogenicity	cyclohexylamine classification criteria are not met. classification criteria are not met.		

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Genoto Mutage	xicity in vivo; Evalua nicity (mammalian c xicity in vitro; Evalua	cell test): Micronucleus.		
Germ o Ames 1 Carcino Reprod No data Germ o	nediamine ell mutagenicity; Ev Test; S. typhimurium ogenicity; Evaluation uctive toxicity a available ell mutagenicity; Ev nicity (micronucleus	negative		
Germ o No data Carcino No data Reprod	2,4,4)-trimethylhexa ell mutagenicity a available ogenicity a available uctive toxicity a available	ne-1,6-diamine		
STOT-si	ngle exposure; ST	OT-repeated exposure		
Based Specific Based Repeat	c target organ toxicit on available data, th c target organ toxicit on available data, th	y (single exposure) le classification criteria are not met. y (repeated exposure) le classification criteria are not met. pacute, subchronic, chronic)		
Specific The sul Specific	c target organ toxicit			
Specific No data Specific	nediamine c target organ toxicit a available c target organ toxicit a available	y (single exposure) y (repeated exposure)		
Specific No data Specific	2,4,4)-trimethylhexa c target organ toxicit a available c target organ toxicit a available			
Aspirati	on hazard			
•	on hazard	d.; May be harmful if inhaled.; non-irrita	nt.	
Aspirat	nethyl-3,5,5-trimeth on hazard on available data, th	ylcyclohexylamine le classification criteria are not met.		
Aspirat	nediamine on hazard a available			
Aspirat	2,4,4)-trimethylhexa on hazard a available	ne-1,6-diamine		
	l experience/huma			

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Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

12.1. Toxicity

benzyl alcohol Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,18 mg/L (96 h) Daphnia toxicity, EC50, Daphnia pulex (water flea): 2,94 mg/L (48 h) Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0.11 mg/L (72 h) Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 10 ppm (96 h) Algae toxicity, EC50, Algae: 2.6 mg/L (72 h) Algae toxicity, NOEC, Skeletonema costatum: 0,027 mg/L (72 h) 3-aminomethyl-3,5,5-trimethylcyclohexylamine Fish toxicity, LC50, Leuciscus idus (golden orfe): 185 mg/L (48 h) Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 3 mg/L (21 d) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 42 mg/L (24 h) Algae toxicity, EC50, Scenedesmus subspicatus; 50 mg/L (72 h) Bacteria toxicity, EC10, Pseudomonas putida: 1120 mg/L (18 h) Fish toxicity, LC50, Danio rerio (zebrafish): 110 mg/L (96 h) M-Xylylenediamine Fish toxicity, LC50, Oryzias latipes: 87,6 mg/L (96 h) Method: OECD 203 semistatic Daphnia toxicity, EC50, Daphnia magna (Big water flea): 15,2 mg/L (48 h) Method: OECD 202 Static test Algae toxicity, EC50, Selenastrum capricornutum: 32,1 mg/L (72 h) Method: OECD 201 Static test Bacteria toxicity, EC50, Sludge treatment: > 1000 mg/L (30 h) Method: OECD 209 respiratory inhibition Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h) Algae toxicity, IC50: 12 mg/L (72 h) 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Algae toxicity, EC50, Scenedesmus subspicatus: 29,5 mg/L (72 h) Fish toxicity, LC50, Leuciscus idus melanotus: 174 mg/L (72 h) Fish toxicity, LC50: 174 mg/L (48 h) Daphnia toxicity, EC50: 34,5 mg/L (24 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

benzyl alcohol Biodegradation: 92 - 96 (14 d) Method: OECD 301C Readily biodegradable (according to OECD criteria)

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	3-aminomethyl-3,5,5-trimethylcyclohexylamine Biodegradation: < 10 percent (28 d); Evaluation Poorly eliminated from water.						
			(28 d); Evaluation Not readily biodegradable (according to OECD criteria)				
	2,2,4(or 2,4 Biodegrad No data a		e-1,6-diamine				
12.3.	Bioaccum	ulative potential					
		on coefficient n-octa	anol/water (log KOW): 1,05 r partition coefficient significant ad	ccumulation in organisms is not expected.			
	Distributio	ethyl-3,5,5-trimethyl on coefficient n-octa r relevant informatio	anol/water (log KOW):				
			anol/water (log KOW): on.				
	2,2,4(or 2,4	4,4)-trimethylhexane					
	Bioconcer	ntration factor (BC	F)				
	benzyl alco Bioconce	hol ntration factor (BCF	-), fish: 1,37				
12.4.	Mobility in	soil					
	benzyl alco soil: No furthe	hol r relevant informatio	on available.				
	3-aminome soil: No data a	ethyl-3,5,5-trimethyl wailable	cyclohexylamine				
	M-Xylylene soil: No data a	diamine					
		1,4)-trimethylhexane	e-1,6-diamine				
12.5		PBT and vPvB as	sessment				
				a according to REACH, annex XIII.			
12.6.	Endocrine	disrupting propertion available.					
12.7.		erse effects tion available.					
SEC	TION 13: D)isposal conside	rations				
13.1.	Waste trea	atment methods					
	Appropria	te disposal / Produ	uct				

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other dangerous substances *Hazardous waste according to Directive 2008/98/EC (waste framework directive).

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Appropriate disposal / Package Recommendation Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.									
SECTION 14: Transport information									
14.1.	UN numbe	er or ID number							
14.0		chinning nome	UN 2734						
14.2.		shipping name port (ADR/RID):	Amines, liquid, corrosive, flammable, n.o.s.						
			((1,3-Bis(aminomethyl)benzene)						
	Sea transp	ort (IMDG):	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.						
	Air transpo	rt (ICAO-TI / IATA-E	((1,3-Bis(aminomethyl)benzene) GR): Amines, liquid, corrosive, flammable, n.o.s.						
			((1,3-Bis(aminomethyl)benzene)						
14.3.	Transport	hazard class(es)							
			8 (3)						
14.4.	Packing g	roup							
445			11						
14.5.		ental hazards							
		port (ADR/RID)	not applicable						
44.0	Marine pol		not applicable						
14.6.		ecautions for user	ant and asta containers. Make ours that some so transmiss the preduct knows what to do in						
	Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what t case of an accident or leakage. Advices on safe handling: see parts 6 - 8								
	Further in	formation							
	l and trans	sport (ADR/RID)							
		triction code	D/E						
	Turiner res								
	Sea transi	oort (IMDG)							
	EmS-No.		F-E, S-C						
14.7.		ransport in bulk ad	cording to IMO instruments						
No transport as bulk according IBC - Code.									
SEC	TION 15: F	Regulatory inform	ation						
			ntal regulations/legislation specific for the substance or mixture						
10.1.	EU legisla								
	-		strial emissions [Industrial Emissions Directive]						
		(in g/L): 408							
	National r	egulations							
	Observe e applicable.		ons under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if						
	ment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter								
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94 national regulations, if applicable.									
15.2.									
	-	For the following substances of this mixture a chemical safety assessment has been carried out:							
	EC No.	Design	tion REACH No.						
	CAS No. 202-859-9	benzyl a	cohol 01-2119492630-38						
	100-51-6								
	220-666-8 2855-13-2	3-amino	nethyl-3,5,5-trimethylcyclohexylamine 01-2119514687-32						

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216-032-5 1477-55-0			enediamine	01-2119480150-50					
247-063-2 25513-64-		2,2,4(or	2,4,4)-trimethylhexane-1,6-diamine	01-2119560598-25					
SECTION 16: 0	ON 16: Other information								
Full text o	Full text of classification in section 3								
Acute Tox.	4 / H302		Acute toxicity (oral)	Harmful if swallowed.					
Acute Tox.	4 / H332		Acute toxicity (inhalative)	Harmful if inhaled.					
Acute Tox.	4 / H312		Acute toxicity (dermal)	Harmful in contact with skin.					
Skin Corr.	1B / H314		Skin corrosion/irritation	Causes severe skin burns and eye damage.					
Skin Sens.	. 1 / H317		Respiratory or skin sensitisation	May cause an allergic skin reaction.					
Aquatic Ch	nronic 3 / H	412	Hazardous to the aquatic environmer	t Harmful to aquatic life with long lasting effects.					
Acute Tox.	. 3 / H331		Acute toxicity (inhalative)	Toxic if inhaled.					
Skin Sens.	. 1B / H317		Respiratory or skin sensitisation	May cause an allergic skin reaction.					
Eye Dam.	1 / H318		Serious eye damage/eye irritation	Causes serious eye damage.					
Classifica	tion proce	dure							
Classificati	ion for mixt	ures and	used evaluation method according to r	regulation (EC) No 1272/2008 [CLP]					
Flam. Liq.	3		Flammable liquids	On basis of test data.					
Acute Tox.	. 4		Acute toxicity (oral)	Calculation method.					
Acute Tox.	. 3		Acute toxicity (inhalative)	Calculation method.					
Skin Corr.	1B		Skin corrosion/irritation	Calculation method.					
Eye Dam.	1		Serious eye damage/eye irritation	Calculation method.					
Skin Sens.	. 1		Respiratory or skin sensitisation	Calculation method.					
Aquatic Ch	nronic 3		Hazardous to the aquatic environmer	nt Calculation method.					
Abbreviat	ions and a	cronvms							
ADR				onal Carriage of Dangerous Goods by Road					
OEL			tional Exposure Limit Value						
BLV		Biological Limit Value							
	CAS CLP CMR DIN DNEL EAKV		Chemical Abstracts Service Classification, Labelling and Packaging Carcinogenic, Mutagenic and Reprotoxic German Institute for Standardization / German industrial standard Derived No-Effect Level European Waste Catalogue Directive Effective Concentration						
DIN									
DNEL									
EAKV									
EC									
EC		Europea	European Community						
EN		European Standard							
IATA-DGR	l	International Air Transport Association – Dangerous Goods Regulations							
IBC Code		International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk							
ICAO-TI		Internati	nternational Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous						
		Goods by Air							
IMDG Code		International Maritime Code for Dangerous Goods							
ISO		Internati	onal Organization for Standardization						
LC		Lethal Concentration							
LD		Lethal D	lose						
MARPOL		Maritime	Pollution: The International Convention	on for the Prevention of Pollution from Ships					
OECD		Organis	ation for Economic Cooperation and D	evelopment					
PBT		•	nt, bioaccumulative, toxic						
PNEC			d No Effect Concentration						
REACH			tion, Evaluation, Authorisation and Re						
RID			ons concerning the International Carri	age of Dangerous Goods by Rail					
UN		United Nations							
VOC		Volatile Organic Compounds							
vPvB		very per	sistent and very bioaccumulative						
Further in	formation								

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in

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section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.