

#### 2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

#### Hazard pictograms



Danger

## Hazard statements

H314 H317 H411	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary stater	
P260	Do not breathe vapour.
P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/ national/international regulations.
Hazard components	for labelling
-	Amines, polyethylenepoly-, triethylenetetramine fraction
	Fatty acids, C-18 unsaturated, dimeric, oligomeric reaction products with tall oil fatty acids and
	triethylenetetramine
	3-aminomethyl-3,5,5-trimethyl-cyclohexylamine

m-phenylenebis(methylamine)

#### Supplemental hazard information



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#### not applicable

#### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

Description	modified aminic hardener		
•			
Hazardous ingr			
Classification a EC No. CAS No. Index No.	ccording to Regulation (EC) No 1272/2008 [CLP] REACH No. Designation classification: // Remark	weight-%	
500-191-5	01-2119972320-44		
68082-29-1	Fatty acids, C-18 unsaturated, dimeric, oligomeric reaction products with tall oil fatty acids and triethylenetetramine Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	74,9 - 100	
292-588-2 90640-67-8	01-2119487919-13 Amines, polyethylenepoly-, triethylenetetramine fraction Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412 / EUH071 Acute toxicity estimate (ATE): ATE (oral): 1717 mg/kg bw / ATE (dermal):	2,4 - 9,9	
	1465 mg/kg bw		
220-666-8 2855-13-2 612-067-00-9	01-2119514687-32 3-aminomethyl-3,5,5-trimethyl-cyclohexylamine Acute Tox. 4 H302 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317	0,9 - 2,4	
	Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0,001 Acute toxicity estimate (ATE): ATE (oral): 1030 mg/kg bw		
202-859-9 100-51-6 603-057-00-5	01-2119492630-38 benzyl alcohol Acute Tox. 4 H332 / Acute Tox. 4 H302 Acute toxicity estimate (ATE): ATE (oral): 1230 mg/kg bw / ATE (inhalation, vapour): 4,17 mg/L	0,9 - 2,4	
216-032-5 1477-55-0	01-2119480150-50 m-phenylenebis(methylamine) Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Corr. 1B H314 / Skin Sens. 1B H317 / Aquatic Chronic 3 H412 Acute toxicity estimate (ATE): ATE (oral): 930 mg/kg bw	0,9 - 2,4	

#### dditional information

Full text of classification: see section 16

#### **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**



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

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- 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. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

#### **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 contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. 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 5 °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



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#### 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: 47 mg/kg bw/day DNEL long-term dermal (systemic), Workers: 9,5 mg/kg DNEL acute inhalative (systemic), Workers: 450 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Workers: 90 mg/m<sup>3</sup> 3-aminomethyl-3,5,5-trimethyl-cyclohexylamine Index No. 612-067-00-9 / EC No. 220-666-8 / CAS No. 2855-13-2 DNEL long-term inhalative (local), Workers: 0,073 mg/m<sup>3</sup> m-phenylenebis(methylamine) EC No. 216-032-5 / CAS No. 1477-55-0 DNEL long-term dermal (systemic), Workers: 0,33 mg/kg DNEL long-term inhalative (local), Workers: 0,2 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Workers: 1,2 mg/m<sup>3</sup> Amines, polyethylenepoly-, triethylenetetramine fraction EC No. 292-588-2 / CAS No. 90640-67-8 DNEL long-term dermal (systemic), Workers: 0,57 mg/kg bw/day DNEL acute inhalative (local), Workers: 5380 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Workers: 1 mg/m<sup>3</sup> 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 3-aminomethyl-3,5,5-trimethyl-cyclohexylamine Index No. 612-067-00-9 / EC No. 220-666-8 / CAS No. 2855-13-2 PNEC aquatic, freshwater: 0,06 mg/L PNEC aquatic, marine water: 0,006 mg/L PNEC aquatic, intermittent release: 0,23 mg/L PNEC sediment, freshwater: 5,784 mg/kg PNEC sediment, marine water: 0,578 mg/kg PNEC sewage treatment plant (STP): 3,18 mg/L m-phenylenebis(methylamine) EC No. 216-032-5 / CAS No. 1477-55-0 PNEC aquatic, freshwater: 0,094 mg/L PNEC aquatic, marine water: 0,009 mg/L PNEC aquatic, intermittent release: 0,152 mg/L PNEC sediment, freshwater: 0,43 mg/kg PNEC sediment, marine water: 0,043 mg/kg PNEC, soil: 0,045 mg/kg PNEC sewage treatment plant (STP): 10 mg/L Amines, polyethylenepoly-, triethylenetetramine fraction EC No. 292-588-2 / CAS No. 90640-67-8 PNEC aquatic, freshwater: 0,19 mg/L PNEC aquatic, marine water: 0,038 mg/L PNEC aquatic, intermittent release: 0,2 mg/L PNEC sediment, freshwater: 95,9 mg/kg d.w. PNEC sediment, marine water: 19,2 mg/kg d.w.



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PNEC, soil: 19,1 mg/kg d.w.

PNEC sewage treatment plant (STP): 4,25 mg/L

#### 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**

Recommendation: full mask / half mask / filtering half mask. Type A / B class 1/2Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). 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 properties

Physical state: Appearance: Colour:	Liquid viscous black
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	-35 °C Source: Amines, polyethylenepoly-, triethylenetetramine fraction
Initial boiling point and boiling range:	not applicable
Flammability:	Combustible liquid.
Lower and upper explosion limit: Lower explosion limit:	<b>1,22 Vol-%</b> Source: benzyl alcohol
Upper explosion limit:	13 Vol-% Source: benzyl alcohol
Flash point:	> 100 °C
Auto-ignition temperature:	<b>435 °C</b> Source: benzyl alcohol
Decomposition temperature:	not applicable
pH at 20 °C:	not relevant
Cinematic viscosity (40°C):	70000 mm²/s
Viscosity at 20 °C:	55 - 80 Pa*s
Solubility(ies): Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12



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Vapou	r pressure at 20 °C:		<b>0,027 mbar</b> Source: benzyl alcohol
	y and/or relative densi ty at 20 °C:		1,00 g/cm³
Relativ	ve vapour density:		not applicable
particl	e characteristics:		not applicable
0.2. Other	information		*
Solver	nt separation test:		< 3 weight-% (ADR/RID)
<b>SECTION 1</b>	0: Stability and reac	tivity	
I0.1. Reacti No info	<b>vity</b> prmation available.		
		mmended regulatic	ons for storage and handling. Further information on correct storage: refer to
	<b>bility of hazardous rea</b> way from strong acids,		strong oxidizing agents to avoid exothermic reactions.
	t <b>ions to avoid</b> lous decomposition byp	roducts may form v	with exposure to high temperatures.
	patible materials		
Hazard	<ul> <li>Hazardous decomposition products</li> <li>Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.</li> </ul>		
<b>SECTION 1</b>	1: Toxicological info	ormation	
1.1. Inform	ation on hazard class	es as defined in R	Regulation (EC) No 1272/2008 *
Acute	toxicity		
oral, l derma	alcohol LD50, Rat: 1230mg/kg al, LD50, Rabbit: 2000r ative (Gases), LC50, Ra		(4 h)
oral, l	omethyl-3,5,5-trimethyl LD50, Rat: 1030 mg/kg al, LD50, Rat: > 2000 m		
oral, l derma derma inhala	nylenebis(methylamine) LD50, Rat: 930 mg/kg al, LD50, Rat: > 2000 m al, LD50, Rabbit: 2000 r ative (vapours), LC50, R ative (vapours), LC50, R	g/kg ng/kg 8at: 2,4 mg/L (4 h)	•
•	cids, C-18 unsaturated, LD50, Rat: > 2000 mg/k		c reaction products with tall oil fatty acids and triethylenetetramine
oral, l derma	s, polyethylenepoly-, trie LD50, Rat: 1717 mg/kg al, LD50, Rat: 1720 mg/ al, LD50, Rabbit: 1465 r	′kg	raction
Skin c	orrosion/irritation; Ser	ious eye damage/	/eye irritation
Cause	s severe skin burns and	eye damage.	
eyes, Metho Skin,	alcohol Rabbit: Evaluation Irrita od: OECD 405 Rabbit: Evaluation no s od: OECD 404		



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m-phenylenebis(methylamine)

Skin, Rabbit (24 h): Evaluation strongly irritant.

## Respiratory or skin sensitisation

May cause an allergic skin reaction.

benzyl alcohol

Skin, Guinea pig: ; Evaluation not sensitising. Method: OECD 406

m-phenylenebis(methylamine) Skin, Mouse: ; Evaluation Sensitising Method: OECD 429

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

m-phenylenebis(methylamine) Germ cell mutagenicity; Evaluation No mutagenic effect genotoxicity; Evaluation negative Method: OECD 471 (Ames test) Ames test; Salmonella typhimurium genotoxicity; Evaluation negative Method: OECD 473 in-vitro; Chromosomal aberrations in mammalian cells:; Hamster genotoxicity; Evaluation negative Method: OECD 476 in-vitro; Mouse-lymphoma-cells genotoxicity; Evaluation negative Method: OECD 474 in-vivo; Mouse; oral

#### STOT-single exposure; STOT-repeated exposure

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

#### Aspiration hazard

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

#### Practical experience/human evidence

Causes burns. The preparation may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

#### **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.

#### Remark

There is no information available on the preparation itself .

### 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, Pimephales promelas (fathead minnow): 460 mg/L (96 h)
Method: EPA 600/3-76/097
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 230 mg/L (48 h)
Method: OECD 202
Daphnia toxicity, LC50, Daphnia magna (Big water flea): 360 mg/L (48 h)
Algae toxicity, EC50, Scenedesmus quadricauda: 640 mg/L (96 h)
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 770 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, EC10, Pseudomonas putida: 658 mg/L (16 h)



\*

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	Daphnia toxicity, EC50, Da Daphnia toxicity, EC50: 44 Algae toxicity, EC50: 37 m	cus idus (golden orfe): 110 mg/L (96 h) iphnia magna (Big water flea): 23 mg/L (48 h mg/L (24 h)	1)	
	Method: OECD 203 semistatic Daphnia toxicity, EC50, Da Method: OECD 202 semistatic	ne) s latipes (Ricefish): 87,6 mg/L (96 h) uphnia magna (Big water flea): 15,2 mg/L (48 nastrum capricornutum: 32,1 mg/L (72 h)	sh)	
	static test	tivated sludge: > 1000 mg/L		
	Method: EU C.2 Fish toxicity, EC50, Pimepl Method: OECD 201	riethylenetetramine fraction Iphnia magna (Big water flea): 31,1 mg/L (48 hales promelas (fathead minnow): 330 mg/L dokirchneriella subcapitata: 2,2 mg/L (72 h)		
	Long-term Ecotoxicity			
	Toxic to aquatic life with long	g lasting effects.		
	m-phenylenebis(methylamir Daphnia toxicity, NOEC, D Method: OECD 211 Algae toxicity, NOEC, Pset Method: OECD 201 Daphnia toxicity, LOEC:, D Method: OECD 211 Daphnia toxicity, EC50:, Da Method: OECD 211 Daphnia toxicity, LC50:, Da Method: OECD 211		n) d) d)	
12.2.	Persistence and degradab	ility		
	benzyl alcohol Biodegradation: 92 - 96 % Method: OECD 301C	6 (28 d); Evaluation Readily biodegradable 6 (21 d); Evaluation Readily biodegradable		
	m-phenylenebis(methylamir Biodegradation:, aerobic: 4 Method: OECD 301B Activated sludge	ne) I9 % (28 d); Evaluation Not readily biodegrad	Jable	
12.3.	Bioaccumulative potential			
	benzyl alcohol Partition coefficient: n-octa	nol/water: 1,05		
	m-phenylenebis(methylamir Partition coefficient: n-octa	ne)		
	Amines, polyethylenepoly-, t Partition coefficient: n-octa	riethylenetetramine fraction		



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#### **Bioconcentration factor (BCF)**

m-phenylenebis(methylamine) Bioconcentration factor (BCF), Cyprinus carpio (Common Carp): < 0,3 Amines, polyethylenepoly-, triethylenetetramine fraction Bioconcentration factor (BCF): < 1

#### 12.4. Mobility in soil

Toxicological data are not available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties No information available.

#### 12.7. Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Appropriate disposal / Product

#### 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.

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

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances \*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

# Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

14.1.	UN number or ID number	
		UN 2735
14.2.	UN proper shipping name	
	Land transport (ADR/RID):	Amines, liquid, corrosive, n.o.s.
	See transport (IMDC):	(Amines, polyethylene poly, triethylene tetramine fraction)
	Sea transport (IMDG):	AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, polyethylene poly, triethylene tetramine fraction, Fatty acids, C-18
		unsaturated, dimeric, oligomeric reaction)
	Air transport (ICAO-TI / IATA-DGR):	Amines, liquid, corrosive, n.o.s.
		(Amines, polyethylene poly, triethylene tetramine fraction)
14.3.	Transport hazard class(es)	
		8
14.4.	Packing group	
		II
14.5.	Environmental hazards	
	Land transport (ADR/RID)	DANGEROUS FOR THE ENVIRONMENT
	Marine pollutant	p / Fatty acids, C-18 unsaturated, dimeric, oligomeric reaction
14.6.	Special precautions for user	
	Transport always in closed, upright and safe con case of an accident or leakage. Advices on safe handling: see parts 6 - 8	tainers. Make sure that persons transporting the product know what to do in
	Further information	
	Land transport (ADR/RID)	
	Tunnel restriction code	E



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## Sea transport (IMDG)

EmS-No.

F-A, S-B

#### 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

## **SECTION 15: Regulatory information**

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

#### EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 13

#### National regulations

#### **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

#### Substance/product listed in the following inventories:

AICS no information DSL no information EHS no information IECSC no information KECI no information MITI no information NZLoC no information PICCS no information TSCA no information

#### 15.2. Chemical Safety Assessment

#### For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
500-191-5 68082-29-1	Fatty acids, C-18 unsaturated, dimeric, oligomeric reaction products with tall oil fatty acids and triethylenetetramine	01-2119972320-44
292-588-2 90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	01-2119487919-13
220-666-8 2855-13-2	3-aminomethyl-3,5,5-trimethyl-cyclohexylamine	01-2119514687-32
202-859-9 100-51-6	benzyl alcohol	01-2119492630-38
216-032-5 1477-55-0	m-phenylenebis(methylamine)	01-2119480150-50

#### **SECTION 16: Other information**

#### Full text of classification in section 3:

Full lext of classification in a	Section 5.	
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
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.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

#### **Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]



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	Skin Corr.	1B	Skin corrosion/irritation	Calculation method.	
	Eye Dam. 1	1	Serious eye damage/eye irritation	Calculation method.	
	Skin Sens.		Respiratory or skin sensitisation	Calculation method.	
	Aquatic Ch	ronic 2	Hazardous to the aquatic environment	Calculation method.	
	Abbreviati	ons and acronyms	6		
			opean Agreement concerning the International Carriage of Dangerous Goods by Road		
	OEL		tional Exposure Limit Value		
	BLV		al Limit Value		
	CAS	•	al Abstracts Service		
	CLP	Classific	cation, Labelling and Packaging		
	CMR		genic, Mutagenic and Reprotoxic		
		Germar	an Institute for Standardization / German industrial standard		
	DNEL	Derived	No-Effect Level		
	EAKV	Europea	an Waste Catalogue Directive		
	EC		e Concentration		
	EC	Europea	an Community		
	EN	Europea	an Standard		
		Internat	ational Air Transport Association – Dangerous Goods Regulations		
		Internat	ional Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk		
		Internat	tional Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous		
Goods b		Goods I			
		e Internat	tional Maritime Code for Dangerous Goods		
	ISO	Internat	ional Organization for Standardization		
	LC	Lethal C	Concentration		
	LD	Lethal E	lose		
MARPOL Maritime		Maritime	e Pollution: The International Convention for the Prevention of Pollution from Ships		
OECD Organis			sation for Economic Cooperation and Development		
	PBT		nt, bioaccumulative, toxic		
	PNEC	Predicte	ed No Effect Concentration		
	REACH	Registra	ation, Evaluation, Authorisation and Restriction	on of Chemicals	
	RID	Regulat	ions concerning the International Carriage o	f Dangerous Goods by Rail	
	UN	United I			
	VOC		Organic Compounds		
	vPvB	very per	sistent and very bioaccumulative		
Abbreviations and acronyms					

Abbreviations and acronyms

n.a. = not applicable n.b. = not determined

#### 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 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.

\* Data changed compared with the previous version