

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II) Issue date: 29-03-19 Revision date: 09-08-21 Supersedes version of: 29-03-19 Version: 2.0

1.1. Product ide			npany/undertaking	
Product form	: Mix			
Product name		dener TP E27		
1.2. Relevant id	entified uses of the substance or r	mixture and uses advise	d against	
.2.1. Relevant ide	entified uses			
lain use category		ustrial use, Professional use		
Jse of the substan	ce/mixture : B c	omponent for TP RESIN		
I.2.2. Uses advise	•			
Quartzline BV W.A. Boogaerdtstra 3316 BN Dordrech T +31 (0)78 65131 nfo@quartzline.nl	t - Nederland 00 - F +31 (0)78 6177390 - <u>www.quartzline.nl</u>	t		
	telephone number			
Emergency numbe		0)78 6513100 s number is serviced during o	ffice hours.	
Country	Official advisory body	Address	Emergency number	Remark
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for the purpose of informing medical personnel in cases of acute intoxications
Serious eye damag Skin sensitisation, Hazardous to the a Full text of H- and	ttion, Category 1, Sub-Category 1A ge/eye irritation, Category 1 Category 1 quatic environment — Chronic Hazard, C EUH-statements: see section 16 chemical, human health and environme	0.7		
Harmful if swallowe	ed. Causes severe skin burns and eye da		skin reaction. Harmful to aquatic	life with long lasting
2.2. Label eleme				
Labelling accordi Hazard pictograms	ng to Regulation (EC) No. 1272/2008 [((CLP) :			
		GHS05 GHS07		
Signal word (CLP) Contains	pro rea	-cyclohexyleenbis(methylamir pane-1,2-diol with ammonia, ction products with bisphenol	ne), Reaction products of di-, tri- a Cyclohexanemethanamine, 5-ami A diglycidyl ether homopolymer, r minomethyl-3,5,5-trimethylcyclohe	no-1,3,3-trimethyl-, n-
Hazard statements (CLP) Hazard statements (CL				
	H4	12 - Harmful to aquatic life wit	in long lasting ellects.	

- : P261 Avoid breathing vapours, mist. P264 Wash hands thoroughly after handling. P280 Wear protective clothing, protective gloves, eye protection.

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P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor, a POISON CENTER. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER. P501 - DISON CENTER.

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

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures			
Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	CAS-No.: 9046-10-0 EC-No.: 618-561-0 REACH-no: 01-2119557899- 12	50 – 70	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
1,3-cyclohexyleenbis(methylamine)	CAS-No.: 2579-20-6 EC-No.: 219-941-5 REACH-no: 01-2119543741- 41	25 – 30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
benzyl alcohol	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630- 38	3 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	CAS-No.: 68609-08-5 EC-No.: 614-657-1 REACH-no: 01-2120106013- 80	3 – 10	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Chronic 2, H411
m-phenylenebis(methylamine)	CAS-No.: 1477-55-0 EC-No.: 216-032-5 REACH-no: 01-2119480150- 50	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS-No.: 2855-13-2 EC-No.: 220-666-8 EC Index-No.: 612-067-00-9 REACH-no: 01-2119514687- 32	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
salicylic acid	CAS-No.: 69-72-7 EC-No.: 200-712-3 EC Index-No.: 607-732-00-5 REACH-no: 01-2119486984- 17	0,25 – 2	Repr. 2, H361d Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

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First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and effe Symptoms/effects after skin contact	ects, both acute and delayed : Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Indication of any immediate medic Treat symptomatically.	al attention and special treatment needed

SECTION 5: Firefighting measures 5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	nce or mixture
Fire hazard	: Presents no particular fire or explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate unnecessary personnel. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
Do not allow to enter drains or water courses. Not	ify authorities if liquid enters sewers or public waters.		
6.3. Methods and material for containmer	it and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Sweep or shovel spills into appropriate container for disposal.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
For further information refer to section 8: "Exposu	re controls/personal protection". Concerning disposal elimination after cleaning, see section 13.		

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Concerning personal protective equipment to use, see section 8.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up.
Incompatible products	: Strong bases. Strong acids. Strong oxidation agent.
Heat and ignition sources	: Keep away from heat and direct sunlight.
7.3. Specific end use(s)	

No additional information available.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values No additional information available.

8.1.2. Recommended monitoring procedures No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

No additional information available.

8.1.5. Control banding

No additional information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

protective clothing. Gloves. Protective goggles.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses. DIN EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. CEN : EN 340; EN 369; EN 465

Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR), Polyvinylchloride (PVC)	6 (> 480 minutes)	≥0.11		EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. EN 143

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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SECTION 9: Physical and chemical pr		
9.1. Information on basic physical and ch		
Physical state	: Liquid	
Appearance	: transparent.	
Colour	: Colourless.	
Odour	: Amine-like.	
Odour threshold	: No data available.	
рН	: No data available.	
Relative evaporation rate (butylacetate=1)	: No data available.	
Melting point	: No data available.	
Freezing point	: No data available.	
Boiling point	: No data available.	
Flash point	: No data available.	
Auto-ignition temperature	: No data available.	
Decomposition temperature	: No data available.	
Flammability (solid, gas)	: No data available.	
Vapour pressure	: No data available.	
Relative vapour density at 20 °C	: No data available.	
Relative density	: No data available.	
Solubility	: No data available.	
Partition coefficient n-octanol/water (Log Pow)	: No data available.	
Viscosity, kinematic	: No data available.	
Viscosity, dynamic	: No data available.	
Explosive properties	: No data available.	
Oxidising properties	: No data available.	
Explosive limits	: No data available.	
9.2 Other information		

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity
10.1. Reactivity
Stable under normal conditions of use.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No additional information available.
10.4. Conditions to avoid
Extremely high or low temperatures. Keep away from heat and direct sunlight.
10.5. Incompatible materials
Strong acids. Strong bases. Strong oxidation agent.
10.6. Hazardous decomposition products
Thermal decomposition generates : Carbon oxides (CO, CO2). Corrosive vapours.

SECTION 11: Toxicological information 11.1. Information on toxicological effects		
•	Harmful if swallowed.	
Acute toxicity (dermal) :	Not classified	
Acute toxicity (inhalation) :	Not classified	
Hardener TP E27		
ATE oral	1154,389 mg/kg bodyweight	
1,3-cyclohexyleenbis(methylamine) (2579-20-6)		
ATE oral	500 mg/kg bodyweight	
ATE dermal	1100 mg/kg bodyweight	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)		
LD50 oral rat	2885 mg/kg	

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ATE oral 2885 mg/kg bodyweight ATE oral 2880 mg/kg bodyweight benzy lacohol (100-51-6) I820 mg/kg bodyweight LD80 oral rat 1820 mg/kg bodyweight ATE oral 1820 mg/kg bodyweight ATE oral 1820 mg/kg bodyweight ATE oral 11 mg/kh ATE oral 1.5 mg/kh Cyclohexamenthanamine, 5-amino-1,3,3-tr imethyl - reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5) LD50 dermal rat > 2000 mg/kg ATE oral 500 mg/kg bodyweight DE50 dermal rat > 3100 mg/kg LD50 dermal rat > 134 mg/kh ATE oral 500 mg/kg bodyweight DE50 dermal rat > 1300 mg/kg LD50 dermal rat 1.34 mg/kh ATE oral 500 mg/kg bodyweight ATE oral 500 mg/kg bodyweight ATE oral 500 mg/kg bodyweight ATE oral 1.5 mg/kh ATE oral 1300 mg/kg ATE oral 1300 mg/kg bodyweight ATE oral 1300 mg/kg bodyweight ATE oral 1300 mg/kg bodyweight	Reaction products of di-, tri- and tetra	a-propoxylated propane-1,2-diol with ammonia (9046-10-0)
ATE dermal 2880 mg/kg bodyweight benzyl alcohol (100-51-6) 1620 mg/kg LD50 oral rat 1620 mg/kg bodyweight ATE oral 1620 mg/kg bodyweight ATE gases 4500 ppm/kh ATE vapours 11 mg/l/4h ATE oral 1.5 mg/l/4h Cyclobezanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (6600-00-5) LD50 dermal rat > 2000 mg/kg ATE oral 500 mg/kg bodyweight menpenylenebis(methylamine) (1477-55-0) 500 mg/kg bodyweight LD50 dermal rat > 3100 mg/kg LC50 Inhalation - Rat * 1.4 mg/l/4h ATE oral 500 mg/kg bodyweight ATE oral 15 mg/l/4h Samomethyl-3,5,5-trimethylcyclobexylamc 15 mg/kg LD50 dermal rat 1030 mg/kg bodyweight ATE oral 1340 mg/kg D50 dermal rat 1030 mg/kg bodyweight ATE oral 1340 mg/kg bodyweight ATE oral 1340 mg/kg bodyweight	LD50 dermal rabbit	2980 mg/kg
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LD50 oral rat 1620 mg/kg ATE oral 1620 mg/kg bodyweight ATE oral 1620 mg/kg bodyweight ATE vapours 11 mg/l/4h ATE dust/mist 1.5 mg/l/4h Cyclohexanemethanamine, 5-amino-1,3,3-tr/methyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5) LD50 dermal rat > 2000 mg/kg ATE oral 500 mg/kg bodyweight m-phenylenebis(methylamine) (1477-55-0) ID50 dermal rat LD50 dermal rat > 3100 mg/kg LC50 Inhalation - Rat = 1,34 mg/l/4h ATE oral 500 mg/kg bodyweight ATE gases 4500 pm/d/h ATE ages 4500 pm/d/h ATE ages 1.5 mg/l/ah ATE dust/mist 1.5 mg/l/ah 3-aminomethyl-3,5,5-trimethylcyclohexylamic (2855-13-2) LD50 oral rat 1030 mg/kg LD50 oral rat 1030 mg/kg bodyweight ATE oral 1340 mg/kg bodyweight ATE oral 891 mg/kg bodyweight Ster oral 891 mg/kg bodyweight Ster oral 891 mg/kg bodyweight Ster or	ATE dermal	2980 mg/kg bodyweight
ATE oral 1620 mg/kg bodyweight ATE gases 4600 ppm//4h ATE vapours 11 mg//4h ATE dust/mist 1.5 mg//4h Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (6600-06-5) LD50 dermal rat > 2000 mg/kg ATE oral 500 mg/kg bodyweight m-phenylenebis(methylamine) (1477-55-0) Total and a strengthylenebis(methylamine) (1477-55-0) LD50 dermal rat > 3100 mg/kg C50 Inhalation - Rat = 1.34 mg//4h ATE gases 4500 ppm//4h ATE gases 4500 ppm//4h ATE gases 11 mg//4h ATE dust/mist 1,5 mg//4h 3-aminomethyl-3,5,5-trimethylcyclohexylamic (2855-13-2) LD50 dermal rat 1030 mg/kg bodyweight ATE oral 1030 mg/kg bodyweight ATE oral 1340 mg/kg ATE oral 1340 mg/kg Coor arat 1030 mg/kg bodyweight ATE oral 1340 mg/kg ATE oral 891 mg/kg D50 oral rat 891 mg/kg bodyweight ATE oral 891 mg/kg bodyweight	benzyl alcohol (100-51-6)	
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ATE dust/mist 1,5 mg/l/4h Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5) LD50 dermal rat > 2000 mg/kg ATE oral 500 mg/kg bodyweight m-phenylenebis(methylamine) (1477-55-0) - LD50 dermal rat > 3100 mg/kg LD50 dermal rat > 3100 mg/kg bodyweight ATE oral 500 mg/kg bodyweight ATE dust/mist 1,5 mg/l/4h 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) LD50 of rat at 1030 mg/kg LD50 dermal rabbit 1340 mg/kg ATE oral 1340 mg/kg LD50 oral rat 891 mg/kg LD50 oral rat Senous eye damage. Senous eye damage. Senous eye damage. Senous eye	ATE gases	4500 ppmv/4h
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(6800-08-5) LD50 dermal rat > 2000 mg/kg bodyweight m-phenylenebis(methylamine) (1477-55-0) LD50 dermal rat > 3100 mg/kg bodyweight C50 Inhalation - Rat \$ 1,34 mg/l4h ATE oral 500 mg/kg bodyweight ATE oral \$ 1,34 mg/l4h ATE gases 4500 ppm/d4h ATE vapours 11 mg/l/4h ATE dust/mist 1,5 mg/l/4h 3-aminomethyl-3,5,5-trimethylcyclohexylamic (2855-13-2) LD50 oral rat 1030 mg/kg LD50 dermal rabbit 1340 mg/kg ATE oral 1030 mg/kg LD50 dermal rabbit 1340 mg/kg LD50 dermal rabbit 1340 mg/kg bodyweight ATE oral 1030 mg/kg bodyweight Salicylic acid (69-72-7) Eduse servere skin burns. LD50 dermal rat > 2000 mg/kg ATE oral 891 mg/kg bodyweight Skin corrosion/irritation Causes servere skin burns. Serious eye damage/irritation Causes servere skin burns. Serious eye damage/irritation Causes servere skin neursi. Serious eye damage/irritation Causes servere skin larens. Serious eye damage/irri	ATE dust/mist	1,5 mg/l/4h
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LD50 dermal rat > 3100 mg/kg LD50 dermal rat * 1,34 mg/l/4h ATE oral 500 mg/kg bodyweight ATE gases 4500 ppmv/4h ATE vapours 11 mg/l/4h ATE dust/mist 1,5 mg/l/4h 3aminomethyl-3,5,5-trimethylcyclohexylamire (2855-13-2) LD50 dermal rabbit 1340 mg/kg LD50 dermal rabbit 1340 mg/kg ATE oral 1030 mg/kg bodyweight ATE oral 1030 mg/kg bodyweight ATE oral 1340 mg/kg bodyweight ATE oral 1340 mg/kg bodyweight ATE oral 1340 mg/kg bodyweight Salicylic acid (69-72-7) External LD50 dermal rat 891 mg/kg LD50 dermal rat 891 mg/kg bodyweight Stin corrosion/irritation Causes serieus eye damage. Stin corrosion/irritation Causes serieus eye damage. Serious eye damage/irritation Causes serieus eye damage. Serious eye damage/irritation May cause an allergic skin reaction. Serious eye damage/irritation May cause an allergic skin reaction. Serious eye damage/irritation May cause an allergic skin reaction. Serious	ATE oral	500 mg/kg bodyweight
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LD50 dermal rat> 2000 mg/kgATE oral891 mg/kg bodyweightSkin corrosion/irritation: Causes severe skin burns.Serious eye damage/irritation: Causes serious eye damage.Respiratory or skin sensitisation: May cause an allergic skin reaction.Germ cell mutagenicity: Not classifiedCarcinogenicity: Not classifiedReproductive toxicity: Not classifiedSTOT-single exposure: Not classifiedSTOT-repeated exposure: Not classified	salicylic acid (69-72-7)	
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Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified	Germ cell mutagenicity	: Not classified
STOT-single exposure : Not classified STOT-repeated exposure : Not classified	Carcinogenicity	: Not classified
STOT-repeated exposure : Not classified	Reproductive toxicity	: Not classified
STOT-repeated exposure : Not classified	STOT-single exposure	: Not classified
	STOT-repeated exposure	: Not classified
	Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

1,3-cyclohexyleenbis(methylamine) (2579-20-6)			
LC50 - Fish [1]	130 mg/l (OECD 203; Leuciscus idus)		
EC50 - Crustacea [1]	33,1 mg/l (OECD 202; Daphnia magna)		
ErC50 algae	56,7 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)		
LC50 - Fish [1]	> 15 mg/l (OECD 203; Oncorhynchus mykiss)		
EC50 - Crustacea [1]	80 mg/l (OECD 202; Daphnia magna)		
ErC50 algae	15 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
NOEC chronic algae	0,32 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
benzyl alcohol (100-51-6)	1		
LC50 - Fish [1]	460 mg/l (Pimephales promelas)		
EC50 - Crustacea [1]	230 mg/l (OECD 202; Daphnia magna)		
ErC50 algae	770 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
NOEC chronic crustacea	51 mg/l (OECD 211; Daphnia magna)		
NOEC chronic algae	310 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
Cyclohexanemethanamine, 5-amino-1,3,3-trim (68609-08-5)	nethyl-, reaction products with bisphenol A diglycidyl ether homopolymer		
LC50 - Fish [1]	1,62 mg/l (OECD 203; Danio rerio)		
EC50 - Crustacea [1]	1,59 mg/l (OECD 202; Daphnia magna)		
ErC50 algae	3,13 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
NOEC chronic algae	2,07 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
m-phenylenebis(methylamine) (1477-55-0)			
LC50 - Fish [1]	87,6 mg/l (OECD 203; Oryzias latipes)		
EC50 - Crustacea [1]	15,2 mg/l (OECD 202; Daphnia magna)		
ErC50 algae	33,3 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
NOEC chronic crustacea	4,7 mg/l (OECD 211; Daphnia magna)		
NOEC chronic algae	10,5 mg/l (OECD 201; Pseudokirchneriella subcapitata)		
3-aminomethyl-3,5,5-trimethylcyclohexylamin	e (2855-13-2)		
LC50 - Fish [1]	110 mg/I (EU Method C.1; Leuciscus idus)		
EC50 - Crustacea [1]	23 mg/l (OECD 202; Daohnia magna)		
ErC50 algae	> 50 mg/l (EU Method C.3; Desmodesmus subspicatus)		
salicylic acid (69-72-7)			
EC50 - Crustacea [1]	870 mg/l (OECD 202; Daphnia magna)		
EC50 72h - Algae [1]	> 100 mg/l (OECD 201; Desmodesmus subspicatus)		
NOEC chronic crustacea	 > 100 mg/l (OECD 201; Desmodesmus subspicatus) 10 mg/l (Daphnia magna) 		
NOEC chronic crustacea 12.2. Persistence and degradability	10 mg/l (Daphnia magna)		
NOEC chronic crustacea 12.2. Persistence and degradability 1,3-cyclohexyleenbis(methylamine) (2579-20-	10 mg/l (Daphnia magna) 6)		
NOEC chronic crustacea 12.2. Persistence and degradability 1,3-cyclohexyleenbis(methylamine) (2579-20- Persistence and degradability	10 mg/l (Daphnia magna) 6) Not readily biodegradable.		
NOEC chronic crustacea 12.2. Persistence and degradability 1,3-cyclohexyleenbis(methylamine) (2579-20- Persistence and degradability Reaction products of di-, tri- and tetra-propox	10 mg/l (Daphnia magna) 6) Not readily biodegradable. ylated propane-1,2-diol with ammonia (9046-10-0)		
NOEC chronic crustacea 12.2. Persistence and degradability 1,3-cyclohexyleenbis(methylamine) (2579-20- Persistence and degradability	10 mg/l (Daphnia magna) 6) Not readily biodegradable.		
NOEC chronic crustacea 12.2. Persistence and degradability 1,3-cyclohexyleenbis(methylamine) (2579-20- Persistence and degradability Reaction products of di-, tri- and tetra-propox	10 mg/l (Daphnia magna) 6) Not readily biodegradable. ylated propane-1,2-diol with ammonia (9046-10-0)		

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Cyclohexanemethanamine, 5-amino-1,3,3-trin (68609-08-5)	nethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	
Persistence and degradability	Not readily biodegradable.	
m-phenylenebis(methylamine) (1477-55-0)		
Persistence and degradability	Not readily biodegradable.	
3-aminomethyl-3,5,5-trimethylcyclohexylamir	ne (2855-13-2)	
Persistence and degradability	Not readily biodegradable.	
salicylic acid (69-72-7)		
Persistence and degradability	Readily biodegradable.	
12.3. Bioaccumulative potential		
1,3-cyclohexyleenbis(methylamine) (2579-20-	6)	
Partition coefficient n-octanol/water (Log Pow)	0,783 (21,5 °C; pH>12)	
Reaction products of di-, tri- and tetra-propo	kylated propane-1,2-diol with ammonia (9046-10-0)	
Partition coefficient n-octanol/water (Log Pow)	1,34 (25 °C)	
benzyl alcohol (100-51-6)		
Partition coefficient n-octanol/water (Log Pow)	1,1 (20 °C)	
Cyclohexanemethanamine, 5-amino-1,3,3-trin (68609-08-5)	nethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	
Partition coefficient n-octanol/water (Log Pow)	2,36 (20 °C)	
m-phenylenebis(methylamine) (1477-55-0)		
Partition coefficient n-octanol/water (Log Pow)	≈ 0,18 (25 °C; pH 10,3 - 10,4)	
3-aminomethyl-3,5,5-trimethylcyclohexylamir	ne (2855-13-2)	
Partition coefficient n-octanol/water (Log Pow)	0,99 (23 °C; pH 6,34)	
salicylic acid (69-72-7)		
Partition coefficient n-octanol/water (Log Pow)	2,25 (25 °C)	
12.4. Mobility in soil		
No additional information available. 12.5. Results of PBT and vPvB assessment		
Hardener TP E27		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria		
12.6. Other adverse effects		
	Avoid release to the environment.	
SECTION 13: Disposal considerations 13.1. Waste treatment methods		
	Dispose in a safe manner in accordance with local/national regulations.	
Additional information :	Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.	
Ecology - waste materials	Avoid release to the environment.	
	: 08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS	

SECTION 14: Transport information In accordance with ADR / IMDG / IATA / ADN / RID

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

ine))ine))ine))ine))Transport document descriptionUN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 1,3-UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 1,3-		,000,2020,010 (RE/101171111				
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14.2. UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1:1,3- cyclohesyleenbis(methylam ine)) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1:3,- cyclohesyleenbis(methylam ine)) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1:3,- cyclohesyleenbis(methylam ine)), 8, 1 AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1:3,- cyclohesyleenbis(methylam ine)), 8, 1 14.3. Transport hazard class(es) 8 8 8 8 9 14.4. Packing group 1 1 1 1 1 1 14.4. Packing group 274 Dangerous for the environment. No Dangerous for t	14.1. UN number					
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Dangerous for the environment: No No supplementary information available. 14.6. Special precautions for user 5000000000000000000000000000000000000	Ι	I	I	I	I	
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14.6. Special precautions for user Overland transport Classification code (ADR) : C7 Special provisions (ADR) : 274 Limited quantities (ADR) : 0 Excepted quantities (ADR) : E0 Packing instructions (ADR) : P001 Mixed packing provisions (ADR) : MP8, MP17 Portable tank and bulk container instructions : T14 (ADR) : L10BH Vehicle for tank carriage : AT Transport category (ADR) : 1 Special provisions for carriage - Operation (ADR) : S20 Hazard identification number (Kemler No.) : 88 Orange plates : 88 Linge plates : 27235	J. J	environment: No	e e e e e e e e e e e e e e e e e e e	5		
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Special provisions for carriage - Operation (ADR) : S20 Hazard identification number (Kemler No.) : 88 Orange plates 88 2735 Tunnel restriction code (ADR) : E EAC code : 2X	Vehicle for tank carriage		: AT			
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EAC code : 2X	Tunnel restriction code (ADR)		E			
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Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Transport by sea	
Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in
	water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.
MFAG-No	: 153
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Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 850
PCA max net quantity (IATA)	: 0.5L
CAO packing instructions (IATA)	: 854
CAO max net quantity (IATA)	: 2.5L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C7
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C7
Special provisions (RID)	: 274
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P001
Mixed packing provisions (RID)	: MP8, MP17
Portable tank and bulk container instructions (RID)	: T14
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L10BH
Special provisions for RID tanks (RID)	: TU38, TE22
Transport category (RID)	:1
Hazard identification number (RID)	: 88
14.7. Transport in bulk according to Annex Not applicable	I of Marpol and the IBC Code

Not applicable

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Hardener TP E27 ; 1,3- cyclohexyleenbis(methyla mine) ; Reaction products of di-, tri- and tetra- propoxylated propane- 1,2-diol with ammonia ; benzyl alcohol ; m- phenylenebis(methylamin e) ; 3-aminomethyl-3,5,5- trimethylcyclohexylamine	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Hardener TP E27 ; 1,3- cyclohexyleenbis(methyla mine) ; Reaction products of di-, tri- and tetra- propoxylated propane- 1,2-diol with ammonia ; m- phenylenebis(methylamin e) ; 3-aminomethyl-3,5,5- trimethylcyclohexylamine	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	
	SDS EU format	Modified	
1.2	Use of the substance/mixture	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Modified	
4.2	Symptoms/effects after skin contact	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Storage conditions	Modified	

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Indication of changes			
Section	Changed item	Change	Comments
9.1	Appearance	Modified	
9.1	Odour	Modified	
11.1	ATE oral	Modified	
14.4	Packing group (ADN)	Modified	
14.4	Packing group (IATA)	Modified	
14.4	Packing group (IMDG)	Modified	
14.4	Packing group (ADR)	Modified	
14.6	Packing instructions (IMDG)	Modified	
14.6	Transport category (ADR)	Modified	
14.6	Excepted quantities (ADR)	Modified	
14.6	Limited quantities (ADR)	Modified	
14.6	Hazard identification number (Kemler No.)	Modified	
16	Data sources	Modified	

Abbreviations and acronyms		
SDS	Safety Data Sheet	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
РВТ	Persistent Bioaccumulative Toxic	
vPvB	Very Persistent and Very Bioaccumulative	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
LC50	Median lethal concentration	
LD50	Median lethal dose	
CAS	CAS (Chemical Abstracts Service) number	
EG-nr	EINECS- en ELINCS-number	
EINECS	European Inventory of Existing Commercial Substances	
NOEC	No-Observed Effect Concentration	
STOT	Specific Target Organ Toxicity	
PNEC	Predicted No-Effect Concentration	
	PEC: Predicted Environmental Concentration	
OEL	Occupational Exposure Limit	

Data sources

: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Other information

: REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H361d	Suspected of damaging the unborn child.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet applicable for regions

: GB - United Kingdom

: ATP 12

The classification complies with

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