

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 173480

V008.0 Revision: 08.01.2025

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

1.1. Product identifier

LOCTITE EA 3472 Part B

LOCTITE EA 3472 Part B UFI: RE6T-CW4D-M208-5RN0

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

Intended use: Epoxy Hardener

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin corrosion Sub-category 1B

H314 Causes severe skin burns and eye damage.

Serious eye damage Category 1

H318 Causes serious eye damage.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

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Isophorone diamine **Contains**

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and

triethylenetetramine

benzyl alcohol

N-(3-(Trimethoxysilyl)propyl)ethylenediamine

3,6-diazaoctanethylenediamine

Formaldehyde, polymer with benzenamine, hydrogenated

4,4'-Methylenebis(cyclohexylamine)

Signal word:	Danger
Hazard statement:	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 statement:	P273 Avoid release to the environment.
Prevention	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement:	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Response	Rinse skin with water [or shower].
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P310 Immediately call a POISON CENTER or doctor.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
REACH-Reg No. Isophorone diamine 2855-13-2 220-666-8 01-2119514687-32	5-< 10 %	Skin Sens. 1A, H317 Eye Dam. 1, H318 Skin Corr. 1B, H314 Acute Tox. 4, Oral, H302	Skin Sens. 1A; H317; C >= 0,001 % ===== oral:ATE = 1.030 mg/kg inhalation:ATE = 5,011 mg/l;dust/mist	
benzyl alcohol 100-51-6 202-859-9 01-2119492630-38	2,5-< 5 %	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	dermal:ATE = 2.500 mg/kg oral:ATE = 1.200 mg/kg	
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	3-< 5 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411		
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 01-2119983522-33	1-< 2,5 %	Acute Tox. 3, Oral, H301 Skin Corr. 1C, H314 STOT RE 2, H373 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Skin Sens. 1, H317	dermal:ATE = > 2.000 mg/kg	
1,5-Pentanediamine, 2-methyl- 15520-10-2 239-556-6 01-2119976310-41	1-< 2,5 %	Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Acute Tox. 4, Inhalation, H332 Eye Dam. 1, H318 Skin Corr. 1A, H314 STOT SE 3, H335	inhalation:ATE = 1,225 mg/l;dust/mist	
Salicylic acid 69-72-7 200-712-3 01-2119486984-17	1-< 2,5 %	Repr. 2, H361d Acute Tox. 4, Oral, H302 Eye Dam. 1, H318		
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2 202-013-9 01-2119560597-27	1-< 2,5 %	Acute Tox. 4, Oral, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319		
N-(3- (Trimethoxysilyl)propyl)ethylene diamine 1760-24-3 217-164-6 01-2119970215-39	0,1-< 1 %	Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 4, Inhalation, H332 STOT RE 2, Inhalation, H373	inhalation:ATE = 1,49 mg/l;dust/mist	
3,6-diazaoctanethylenediamine 112-24-3 203-950-6 01-2119487919-13	0,25-< 1 %	Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Sens. 1, H317 Skin Corr. 1B, H314 Aquatic Chronic 3, H412		
4,4'- Methylenebis(cyclohexylamine) 1761-71-3 217-168-8 01-2119541673-38 01-2119979542-27	0,1-< 1 %	Acute Tox. 4, Oral, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT RE 2, Oral, H373 Eye Dam. 1, H318		

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For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

Causes burns.

SKIN: Rash, Urticaria.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

Avoid dust formation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

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6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

Scrape up as much material as possible.

Sweep up spilled material. Avoid creating dust.

Store in a partly filled, closed container until disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Store in a cool, well-ventilated place.

Refer to Technical Data Sheet.

7.3. Specific end use(s)

Epoxy Hardener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Benzyl alcohol 100-51-6			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Benzyl alcohol 100-51-6	5	22	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Benzyl alcohol 100-51-6			Skin designation:	Can be absorbed through the skin.	TRGS 900

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Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Exposure Value Compartment period					Remarks	
			mg/l	ppm	mg/kg	others	
3-Aminomethyl-3,5,5-	aqua		0,06 mg/l				
trimethylcyclohexylamine	(freshwater)						
2855-13-2							
3-Aminomethyl-3,5,5-	aqua (marine		0,006 mg/l				
trimethylcyclohexylamine	water)						
2855-13-2							
3-Aminomethyl-3,5,5-	aqua		0,23 mg/l				
trimethylcyclohexylamine	(intermittent						
2855-13-2	releases)						
3-Aminomethyl-3,5,5-	sediment				5,784		
trimethylcyclohexylamine	(freshwater)				mg/kg		
2855-13-2							
3-Aminomethyl-3,5,5-	sediment				0,578		
trimethylcyclohexylamine	(marine water)				mg/kg		
2855-13-2	0. 11				1.101		
3-Aminomethyl-3,5,5-	Soil				1,121		
trimethylcyclohexylamine 2855-13-2					mg/kg		
			2.10 //			-	
3-Aminomethyl-3,5,5- trimethylcyclohexylamine	sewage treatment plant		3,18 mg/l				
2855-13-2	(STP)						
Benzyl alcohol	Soil				0,456		
100-51-6	5011				· ·		
Benzyl alcohol			20/1		mg/kg		
100-51-6	sewage treatment plant		39 mg/l				
100-31-0	(STP)						
Benzyl alcohol	sediment				5,27 mg/kg		
100-51-6	(freshwater)				3,27 mg/kg		
Benzyl alcohol	sediment				0,527		
100-51-6	(marine water)				· ·		
Benzyl alcohol	aqua (marine		0,1 mg/l		mg/kg		
100-51-6	water)		0,1 Hig/1				
Benzyl alcohol			2,3 mg/l				
100-51-6	aqua (intermittent		2,3 mg/1				
100-31-0	releases)						
Benzyl alcohol	aqua		1 mg/l				
100-51-6	(freshwater)		1 1119/1				
Benzyl alcohol	Predator						no potential for
100-51-6							bioaccumulation
Fatty acids, C18 unsaturated, dimers,	aqua		0,00434				
polymers with tall oil fatty acids and	(freshwater)		mg/l				
triethylenetetramine	,		Ü				
68082-29-1							
Fatty acids, C18 unsaturated, dimers,	aqua (marine		0,00043				
polymers with tall oil fatty acids and	water)		mg/l				
triethylenetetramine							
68082-29-1							
Fatty acids, C18 unsaturated, dimers,	aqua		0,0434				
polymers with tall oil fatty acids and	(intermittent		mg/l				
triethylenetetramine	releases)						
68082-29-1							
Fatty acids, C18 unsaturated, dimers,	sewage		3,84 mg/l				
polymers with tall oil fatty acids and	treatment plant						
triethylenetetramine	(STP)						
68082-29-1 Fatty acids, C18 unsaturated, dimers,	sediment		+		434,02		+
polymers with tall oil fatty acids and	(freshwater)				434,02 mg/kg		
triethylenetetramine	(IICSIIWatei)				mg/kg		
68082-29-1							
Fatty acids, C18 unsaturated, dimers,	sediment		1		43,4 mg/kg		+
polymers with tall oil fatty acids and	(marine water)				-5, - mg/kg		
triethylenetetramine	(marme water)						
68082-29-1	I	1	1				
	Soil				86.78		
Fatty acids, C18 unsaturated, dimers,	Soil				86,78 mg/kg		
	Soil				86,78 mg/kg		

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Section Sect					
hydrogenated Formadelyske, polymer with hemzenarine, spitchings and the polymer polymer polymer polymer with hemzenarine, spitchings and the polymer p	Formaldehyde, polymer with benzenamine,	aqua	0,015 mg/l		
Formaldelyke, polymer with benzenamine, bytogenamed 153 mg/s 1.9 mg/s 1.5 mg/s 1	hydrogenated	(freshwater)			
water					
13 108 88-2		* '	0,002 mg/l		
Formaldelyde, polymer with benzenamine, hydrogenated 131(18.88-2)		water)			
hydrogenated (mineralitent releases) remained hydrogenated (mineralitent releases) response to the phydrogenated (mineralitent releases) response to the phy			0.15		
15.108.88.2			0,15 mg/1		
Formuladity-le, polymer with benzenamine, hydrogenated 1.5 mg/kg 1.5 mg/		(
hydrogenated 155108-88-2 Sediment 15 mg/kg hydrogenated 15108-88-2 Sediment 1.5 mg/kg hydrogenated 15200-10-2 Mg/kg hydratea-15-5diamine sediment Sed			1.9 mg/l		
			1,5 mg/1		
Soliment					
Systems Syst	Formaldehyde, polymer with benzenamine,			15 mg/kg	
Sediment	hydrogenated	(freshwater)			
hydrogenated 1.8 mg/kg 1.18 mg/kg 1.	135108-88-2				
13108-88-2	Formaldehyde, polymer with benzenamine,			1,5 mg/kg	
Formaldelyde, polymer with benzenamine, bythogenated 1.8 mg/kg 1.2 mg/kg		(marine water)			
hydrogenated 135108-382-2 agua					
13108-88-2		Soil		1,8 mg/kg	
2-Methylpentane-1,5-diamine aqua marine may					
		agua	0.42 mg/1		
2-Methylpentane-1,5-diamine sewage 1250 mg/l 1550-10-2 1			0,42 mg/1		
15520-10-2 water)			0.042 mg/l		
2-Methylpentane-1,5-diamine 1550-10-2			0,072 mg/1		
15520-10-2 treatment plant (STP)			1250 mg/l		
CSTP			2200		
15520-10-2 (freshwater)					
15520-10-2	2-Methylpentane-1,5-diamine	sediment		7,58 mg/kg	
15520-10-2		(freshwater)			
2-Methylpentane-1,5-diamine	2-Methylpentane-1,5-diamine				
15520-10-2					
2-Methylpentane-1,5-diamine aqua (intermittent releases) (inte		Soil		1,27 mg/kg	
15520-10-2					
Releases			0,42 mg/l		
Salicylic acid Sali	15520-10-2				
69-72-7	Caliardia acid		0.2 mg/l		
Salicylic acid aqua (marine water) 1 mg/l			0,2 mg/1		
Salicylic acid aqua (intermittent releases) 162 mg/l			0.02 mg/l		
Salicylic acid aqua (intermittent releases)			0,02 mg/1		
Salicylic acid Sewage Se		<u> </u>	1 mg/l		
Salicylic acid sewage treatment plant (STP)			i ilig/i		
Salicylic acid Sediment Salicylic acid Sediment Sediment Salicylic acid Sediment Salicylic acid Sediment Soil Soi		releases)			
Salicylic acid sediment sed	Salicylic acid	sewage	162 mg/l		
Salicylic acid Sediment Sed	69-72-7				
Salicylic acid Sediment Soil					
Salicylic acid sediment (marine water) 0,142 mg/kg 69-72-7 (marine water) mg/kg Salicylic acid 0,166 0,166 69-72-7 aqua (marine water) mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol aqua (marine water) 0,005 mg/l 90-72-2 water) 0,005 mg/l 2,4,6-Tris(dimethylaminomethyl)phenol Freshwater - intermittent 0,46 mg/l 90-72-2 intermittent 0,046 mg/l 2,4,6-Tris(dimethylaminomethyl)phenol sewage treatment plant (STP) 0,2 mg/l 2,4,6-Tris(dimethylaminomethyl)phenol sediment (freshwater) 0,262 90-72-2 (freshwater) mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol sediment (freshwater) 0,026 90-72-2 (freshwater) mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol sediment (marine water) 0,026 90-72-2 (freshwater) mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol sediment (marine water) 0,025 90-72-2 mg/kg 0,025 90-72-2 mg/kg <t< td=""><td></td><td></td><td></td><td>1,42 mg/kg</td><td></td></t<>				1,42 mg/kg	
Salicylic acid Soil O,166 mg/kg				0.1.12	
Salicylic acid 69-72-7					
Comparison of the comparison		· · · · · · · · · · · · · · · · · · ·			
2,4,6-Tris(dimethylaminomethyl)phenol aqua (freshwater) 0,046 mg/l 90-72-2 aqua (marine water) 0,005 mg/l 90-72-2 water) 0,46 mg/l 2,4,6-Tris(dimethylaminomethyl)phenol Freshwater - intermittent 0,46 mg/l 90-72-2 intermittent 0,046 mg/l 2,4,6-Tris(dimethylaminomethyl)phenol Marine water - intermittent 0,046 mg/l 90-72-2 sewage 0,2 mg/l 2,4,6-Tris(dimethylaminomethyl)phenol sewage 0,2 mg/l 90-72-2 (freshwater) 0,262 2,4,6-Tris(dimethylaminomethyl)phenol sediment (freshwater) 0,026 90-72-2 (freshwater) 0,026 90-72-2 (freshwater) 0,025 90-72-2 (freshwater) 0,025 90-72-2 (freshwater) 0,025 90-72-2 (freshwater) 0,05 mg/l		3011			
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90-72-2 water) 2,4,6-Tris(dimethylaminomethyl)phenol poly-72-2 intermittent 2,4,6-Tris(dimethylaminomethyl)phenol poly-72-2 intermittent 2,4,6-Tris(dimethylaminomethyl)phenol poly-72-2 intermittent 2,4,6-Tris(dimethylaminomethyl)phenol sewage treatment plant (STP) 2,4,6-Tris(dimethylaminomethyl)phenol poly-72-2 (freshwater) 2,4,6-Tris(dimethylaminomethyl)phenol poly-72-2 (freshwater) 2,4,6-Tris(dimethylaminomethyl)phenol poly-72-2 (marine water)			0.005 mg/l		
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90-72-2 intermittent	2,4,6-Tris(dimethylaminomethyl)phenol		0,46 mg/l		
90-72-2 intermittent	90-72-2				
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90-72-2 treatment plant (STP) 2,4,6-Tris(dimethylaminomethyl)phenol sediment (freshwater) 2,4,6-Tris(dimethylaminomethyl)phenol sediment (freshwater) 2,4,6-Tris(dimethylaminomethyl)phenol sediment (marine water) 2,4,6-Tris(dimethylaminomethyl)phenol Soil 2,4,6-Tris(dimethylaminomethyl)phenol Soil 30,026 mg/kg 4,4,6-Tris(dimethylaminomethyl)phenol Soil 4,4,6-Tris(dimethylaminomethyl)phenol Soil 5,0025 mg/kg 8,005 mg/l 1,005 mg/l					
(STP) 0,262 2,4,6-Tris(dimethylaminomethyl)phenol sediment 90-72-2 (freshwater) 2,4,6-Tris(dimethylaminomethyl)phenol sediment 90-72-2 (marine water) 2,4,6-Tris(dimethylaminomethyl)phenol Soil 90-72-2 mg/kg N-(3- aqua (Trimethoxysilyl)propyl)ethylenediamine (freshwater)			0,2 mg/l		
2,4,6-Tris(dimethylaminomethyl)phenol sediment (freshwater) 0,262 mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol sediment (marine water) 0,026 mg/kg 90-72-2 (marine water) 0,025 mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol Soil 0,025 mg/kg 90-72-2 mg/kg 0,05 mg/l N-(3- (Trimethoxysilyl)propyl)ethylenediamine (freshwater) 0,05 mg/l	90-72-2				
90-72-2 (freshwater) mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol sediment 0,026 90-72-2 (marine water) mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol Soil 0,025 90-72-2 mg/kg N-(3- aqua 0,05 mg/l (Trimethoxysilyl)propyl)ethylenediamine (freshwater)	2.4 ¢ Tri-(limethalani d. D. I. d.			0.262	
2,4,6-Tris(dimethylaminomethyl)phenol sediment (marine water) 0,026 mg/kg 90-72-2 mg/kg 0,025 mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol Soil 0,025 mg/kg 90-72-2 mg/kg 0,05 mg/l N-(3- (Trimethoxysilyl)propyl)ethylenediamine (freshwater) 0,05 mg/l					
90-72-2 (marine water) mg/kg 2,4,6-Tris(dimethylaminomethyl)phenol Soil 0,025 90-72-2 mg/kg N-(3- aqua 0,05 mg/l (Trimethoxysilyl)propyl)ethylenediamine (freshwater)				0.026	
2,4,6-Tris(dimethylaminomethyl)phenol Soil 0,025 mg/kg 90-72-2 mg/kg N-(3- (Trimethoxysilyl)propyl)ethylenediamine aqua (freshwater) 0,05 mg/l					
90-72-2 mg/kg N-(3- aqua 0,05 mg/l (Trimethoxysilyl)propyl)ethylenediamine (freshwater) 0					
N-(3- (Trimethoxysilyl)propyl)ethylenediamine (freshwater) 0,05 mg/l					
(Trimethoxysilyl)propyl)ethylenediamine (freshwater)	N-(3-	aqua	0,05 mg/l		
	(Trimethoxysilyl)propyl)ethylenediamine		77 6-		
		<u> </u>			

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2	Workers	inhalation	Long term exposure - local effects		0,073 mg/m3	
3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2	Workers	inhalation	Acute/short term exposure - local effects		0,073 mg/m3	
3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2	Workers	dermal	Acute/short term exposure - local effects			
3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2	Workers	dermal	Long term exposure - local effects			
3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2	General population	oral	Acute/short term exposure - systemic effects		0,3 mg/kg	
3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2	General population	oral	Long term exposure - systemic effects		0,3 mg/kg	
Benzyl alcohol 100-51-6	General population	oral	Acute/short term exposure - systemic effects		20 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	oral	Long term exposure - systemic effects		4 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	inhalation	Acute/short term exposure - systemic effects		110 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	inhalation	Long term exposure - systemic effects		22 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	inhalation	Acute/short term exposure - systemic effects		27 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	inhalation	Long term exposure - systemic effects		5,4 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	dermal	Acute/short term exposure - systemic effects		40 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	dermal	Long term exposure - systemic effects		8 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	dermal	Acute/short term exposure - systemic effects		20 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	dermal	Long term exposure - systemic effects		4 mg/kg	no potential for bioaccumulation
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Workers	inhalation	Long term exposure - systemic effects		3,9 mg/m3	
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Workers	dermal	Long term exposure - systemic effects		1,1 mg/kg	
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	General population	inhalation	Long term exposure - systemic effects		0,97 mg/m3	
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	General population	dermal	Long term exposure - systemic effects		0,56 mg/kg	
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	General population	oral	Long term exposure - systemic effects		0,56 mg/kg	

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Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Workers	inhalation	Long term exposure - systemic effects	0,2 mg/m3	
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Workers	inhalation	Acute/short term exposure - systemic effects	2 mg/m3	
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Workers	dermal	Long term exposure - systemic effects	2 mg/kg	
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Workers	dermal	Acute/short term exposure - systemic effects	6 mg/kg	
2-Methylpentane-1,5-diamine 15520-10-2	Workers	inhalation	Long term exposure - local effects	0,25 mg/m3	
2-Methylpentane-1,5-diamine 15520-10-2	Workers	inhalation	Acute/short term exposure - local effects	0,5 mg/m3	
2-Methylpentane-1,5-diamine 15520-10-2	Workers	dermal	Long term exposure - systemic effects	1,5 mg/kg	
2-Methylpentane-1,5-diamine 15520-10-2	General population	inhalation	Long term exposure - local effects	0,125 mg/m3	
2-Methylpentane-1,5-diamine 15520-10-2	General population	inhalation	Acute/short term exposure - local effects	0,25 mg/m3	
2-Methylpentane-1,5-diamine 15520-10-2	General population	dermal	Long term exposure - systemic effects	0,75 mg/kg	
2-Methylpentane-1,5-diamine 15520-10-2	General population	oral	Long term exposure - systemic effects	0,75 mg/kg	
Salicylic acid 69-72-7	Workers	inhalation	Long term exposure - systemic effects	4,48 mg/m3	
Salicylic acid 69-72-7	Workers	dermal	Long term exposure - systemic effects	1,06 mg/kg	
Salicylic acid 69-72-7	General population	inhalation	Long term exposure - systemic effects	0,79 mg/m3	
Salicylic acid 69-72-7	General population	dermal	Long term exposure - systemic effects	0,378 mg/kg	
Salicylic acid 69-72-7	General population	oral	Long term exposure - systemic effects	0,227 mg/kg	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	Workers	inhalation	Long term exposure - systemic effects	0,53 mg/m3	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	Workers	inhalation	Acute/short term exposure - systemic effects	2,1 mg/m3	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	Workers	dermal	Long term exposure - systemic effects	0,15 mg/kg	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	Workers	dermal	Acute/short term exposure - systemic effects	0,6 mg/kg	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	General population	inhalation	Long term exposure - systemic effects	0,13 mg/m3	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	General population	inhalation	Acute/short term exposure - systemic effects	0,13 mg/m3	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	General population	dermal	Long term exposure - systemic effects	0,075 mg/kg	
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	General population	dermal	Acute/short term exposure - systemic effects	0,075 mg/kg	
2,4,6-Tris(dimethylaminomethyl)phenol	General	oral	Long term	0,075 mg/kg	

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90-72-2	population		exposure - systemic effects	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Workers	inhalation	Long term exposure - systemic effects	130 mg/m3
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Workers	inhalation	Acute/short term exposure - local effects	5,36 mg/m3
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	General population	inhalation	Long term exposure - systemic effects	26 mg/m3
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	General population	oral	Long term exposure - systemic effects	4 mg/kg
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	General population	inhalation	Acute/short term exposure - local effects	4 mg/m3
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Workers	inhalation	Long term exposure - local effects	0,6 mg/m3
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	General population	inhalation	Long term exposure - local effects	0,1 mg/m3
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	General population	inhalation	Acute/short term exposure - systemic effects	26400 mg/m3
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Workers	dermal	Long term exposure - local effects	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Workers	dermal	Acute/short term exposure - local effects	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	General population	dermal	Long term exposure - local effects	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	General population	dermal	Acute/short term exposure - local effects	
3,6-diazaoctanethylenediamine 112-24-3	Workers	inhalation	Long term exposure - systemic effects	0,54 mg/m3
3,6-diazaoctanethylenediamine 112-24-3	General population	inhalation	Long term exposure - systemic effects	0,096 mg/m3
3,6-diazaoctanethylenediamine 112-24-3	General population	oral	Long term exposure - systemic effects	0,14 mg/kg
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Workers	inhalation	Long term exposure - systemic effects	0,13 mg/m3
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Workers	dermal	Long term exposure - systemic effects	0,053 mg/kg
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Workers	inhalation	Long term exposure - local effects	
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Workers	inhalation	Acute/short term exposure - local effects	
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Workers	dermal	Long term exposure - local effects	
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Workers	dermal	Long term exposure - local effects	

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Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly

ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form paste
Colour Gray / Grey
Odor amine-like
Physical state solid

Solidification temperature Not applicable, Product is a solid

Initial boiling point $> 200 \,^{\circ}\text{C} (> 392 \,^{\circ}\text{F})$

Flammability The product is not flammable. Explosive limits Not applicable, Product is a solid

Flash point > 100 °C (> 212 °F) Auto-ignition temperature Not applicable, Product is a solid

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no organic

peroxide and does not decompose under foreseen conditions of use

9 - 12

(20 °C (68 °F); Conc.: 100 %)

Viscosity (kinematic) Not applicable, Product is a solid

Solubility (qualitative) Insoluble

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water Not applicable

Mixture

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Vapour pressure 0,02 hPa

(20 °C (68 °F)) Density 2,45 g/cm3 None

(20 °C (68 °F))

Relative vapour density: Not applicable, Product is a solid
Particle characteristics Not applicable, mixture is a paste.

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants.

Acids.

Reaction with strong acids.

Strong bases.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

Rapid polymerisation may generate excessive heat and pressure.

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
Isophorone diamine 2855-13-2	Acute toxicity estimate (ATE)	1.030 mg/kg		Expert judgement
benzyl alcohol 100-51-6	Acute toxicity estimate (ATE)	1.200 mg/kg		Expert judgement
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	LD50	300 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
1,5-Pentanediamine, 2- methyl- 15520-10-2	LD50	1.170 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Salicylic acid 69-72-7	LD50	891 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	LD50	1.200 mg/kg	rat	not specified
N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3	LD50	2.295 mg/kg	rat	EPA OPPTS 870.1100 (Acute Oral Toxicity)
3,6- diazaoctanethylenediamin e 112-24-3	LD50	1.591 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
4,4'- Methylenebis(cyclohexyla mine) 1761-71-3	LD50	380 mg/kg	rat	EPA OPP 81-1 (Acute Oral Toxicity)

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Acute dermal toxicity:

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Isophorone diamine 2855-13-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
benzyl alcohol 100-51-6	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Acute toxicity estimate (ATE)	> 2.000 mg/kg	rabbit	Expert judgement
1,5-Pentanediamine, 2- methyl- 15520-10-2	LD50	1.870 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Salicylic acid 69-72-7	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3	LD50	> 2.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
3,6- diazaoctanethylenediamin e 112-24-3	LD50	1.465 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
4,4'- Methylenebis(cyclohexyla mine) 1761-71-3	LD50	2.110 mg/kg	rabbit	not specified

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Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Isophorone diamine 2855-13-2	LC50	> 5,01 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Isophorone diamine 2855-13-2	Acute toxicity estimate (ATE)	5,011 mg/l	dust/mist			Expert judgement
benzyl alcohol 100-51-6	LC50	> 5,4 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
1,5-Pentanediamine, 2- methyl- 15520-10-2	Acute toxicity estimate (ATE)	1,225 mg/l	dust/mist	4 h		Expert judgement
N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3	LC50	1,49 - 2,44 mg/l	dust/mist	4 h	rat	EPA OPPTS 870.1300 (Acute inhalation toxicity)
N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3	Acute toxicity estimate (ATE)	1,49 mg/l	dust/mist			Expert judgement

Skin corrosion/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
benzyl alcohol 100-51-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	irritating or corrosive		Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	not corrosive		Human, in vitro skin model	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Category 1C (corrosive)		Corrositex Biobarrier Membrane (reconstituted collagen matrix)	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
1,5-Pentanediamine, 2- methyl- 15520-10-2	highly corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Salicylic acid 69-72-7	slightly irritating		rabbit	not specified
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	Sub-Category 1C (corrosive)		Corrositex Biobarrier Membrane (reconstituted collagen matrix)	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3	mildly irritating	4 h	rabbit	EPA OPPTS 870.2500 (Acute Dermal Irritation)

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3,6- diazaoctanethylenediamin e 112-24-3	corrosive		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
4,4'- Methylenebis(cyclohexyla mine) 1761-71-3	corrosive	2,75 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Isophorone diamine 2855-13-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
benzyl alcohol 100-51-6	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Salicylic acid 69-72-7	highly irritating		rabbit	Draize Test
N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
4,4'- Methylenebis(cyclohexyla mine) 1761-71-3	Category 1 (irreversible effects on the eye)		rabbit	not specified

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Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Isophorone diamine 2855-13-2	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	sensitising	Buehler test	guinea pig	Buehler test
Salicylic acid 69-72-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3	Sub-Category 1A (sensitising)	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
3,6- diazaoctanethylenediamin e 112-24-3	sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Isophorone diamine 2855-13-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
benzyl alcohol 100-51-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Salicylic acid 69-72-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Salicylic acid 69-72-7	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Salicylic acid 69-72-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2,4,6- tris(dimethylaminomethyl)phenol 90-72-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
3,6- diazaoctanethylenediamin e 112-24-3	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
3,6- diazaoctanethylenediamin e 112-24-3	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
benzyl alcohol 100-51-6	not carcinogenic	oral: gavage	104 weeks once daily, 5 days/week	rat	male/female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)
Salicylic acid 69-72-7	not carcinogenic	oral: feed	2 years daily	rat	male/female	not specified

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Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
benzyl alcohol 100-51-6	NOAEL P 200 mg/kg	screening	oral: gavage	mouse	not specified
Salicylic acid 69-72-7	NOAEL P 250 mg/kg	three- generation study	oral: feed	rat	equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Isophorone diamine 2855-13-2	NOAEL < 60 mg/kg	oral: drinking water	13 weeks	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
benzyl alcohol 100-51-6	NOAEL 400 mg/kg	oral: gavage	13 weeks once daily, 5 days/week	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	NOAEL 15 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Salicylic acid 69-72-7	NOAEL 50 mg/kg	oral: feed	2 years daily	rat	not specified
3,6- diazaoctanethylenediamin e 112-24-3	LOAEL 50 mg/kg	oral: gavage	26 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
3,6- diazaoctanethylenediamin e 112-24-3	NOAEL 50 mg/kg	oral: gavage	26 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
4,4'- Methylenebis(cyclohexyla mine) 1761-71-3	NOAEL 15 mg/kg	oral: gavage	M: 36 d / F: 48-52 d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isophorone diamine 2855-13-2	LC50	110 mg/l	96 h	Leuciscus idus	EU Method C.1 (Acute Toxicity for Fish)
benzyl alcohol 100-51-6	LC50	460 mg/l	96 h	Pimephales promelas	EPA OPP 72-1 (Fish Acute Toxicity Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	LC50	7,07 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	LC50	96 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,5-Pentanediamine, 2- methyl- 15520-10-2	LC50	1.825 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Salicylic acid 69-72-7	LC50	1.370 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,4,6- tris(dimethylaminomethyl)phe nol 90-72-2	LC50	153 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)]
N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3	LC50	168 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
3,6- diazaoctanethylenediamine 112-24-3	LC50	570 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	LC50	> 100 mg/l	96 h	Leuciscus idus	DIN 38412-15

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isophorone diamine	EC50	23 mg/l	48 h	Daphnia magna	OECD Guideline 202
2855-13-2					(Daphnia sp. Acute
					Immobilisation Test)
benzyl alcohol	EC50	230 mg/l	48 h	Daphnia magna	OECD Guideline 202
100-51-6					(Daphnia sp. Acute
					Immobilisation Test)
Fatty acids, C18 unsaturated,	EC50	7,07 mg/l	48 h	Daphnia magna	OECD Guideline 202
dimers, polymers with tall oil					(Daphnia sp. Acute
fatty acids and					Immobilisation Test)
triethylenetetramine					

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68082-29-1		1	Ì		
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	EC50	15,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,5-Pentanediamine, 2-methyl- 15520-10-2	EC50	19,8 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Salicylic acid 69-72-7	EC50	870 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,4,6- tris(dimethylaminomethyl)phe nol 90-72-2	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3	EC50	87,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3,6- diazaoctanethylenediamine 112-24-3	EC50	31 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	EC50	7,07 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

${\bf Chronic\ toxicity\ (aquatic\ invertebrates):}$

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isophorone diamine	NOEC	3 mg/l	21 d	Daphnia magna	OECD Guideline 202
2855-13-2					(Daphnia sp. Chronic
					Immobilisation Test)
benzyl alcohol	NOEC	51 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
100-51-6					magna, Reproduction Test)
1,5-Pentanediamine, 2-methyl-	NOEC	4,16 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
15520-10-2					magna, Reproduction Test)
Salicylic acid	NOEC	10 mg/l	21 d	Daphnia magna	OECD Guideline 202
69-72-7					(Daphnia sp. Chronic
					Immobilisation Test)
N-(3-	NOEC	> 1 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
(Trimethoxysilyl)propyl)ethyl					magna, Reproduction Test)
enediamine					
1760-24-3					
4,4'-	NOEC	4 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
Methylenebis(cyclohexylamin					magna, Reproduction Test)
e)					
1761-71-3					

Toxicity (Algae):

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The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isophorone diamine 2855-13-2	EC10	11,2 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Isophorone diamine 2855-13-2	EC50	> 50 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
benzyl alcohol 100-51-6	EC50	770 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	NOEC	310 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	EC50	4,34 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	NOEC	0,5 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	EC10	1,2 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	EC50	43,94 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
15520-10-2	EC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,5-Pentanediamine, 2-methyl- 15520-10-2	NOEC	10 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Salicylic acid 69-72-7	EC50	> 100 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6- tris(dimethylaminomethyl)phe nol 90-72-2	EC50	46,7 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6- tris(dimethylaminomethyl)phe nol 90-72-2	NOEC	6,44 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3	EC50	8,8 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3	NOEC	3,1 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,6- diazaoctanethylenediamine 112-24-3	EC50	20 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	,
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	EC50	> 140 - 200 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	EC10	100 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		-		

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Isophorone diamine 2855-13-2	EC10	1.120 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
benzyl alcohol 100-51-6	EC10	658 mg/l	17 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	EC10	130 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Salicylic acid 69-72-7	EC50	> 1.000 mg/l	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2,4,6- tris(dimethylaminomethyl)phe nol 90-72-2	EC0	27 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3	EC 50	435 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
3,6- diazaoctanethylenediamine 112-24-3	EC0	137 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	EC20	> 1.000 mg/l	3 h	activated sludge, industrial	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Isophorone diamine	not readily biodegradable.	aerobic	8 %	28 d	EU Method C.4-A (Determination
2855-13-2					of the "Ready"
					BiodegradabilityDissolved
					Organic Carbon (DOC) Die-Away
					Test)
benzyl alcohol	readily biodegradable	aerobic	92 - 96 %	14 d	OECD Guideline 301 C (Ready
100-51-6					Biodegradability: Modified MITI
					Test (I))
Fatty acids, C18 unsaturated,	not readily biodegradable.	no data	0 - 60 %	28 d	OECD Guideline 301 D (Ready
dimers, polymers with tall oil					Biodegradability: Closed Bottle
fatty acids and					Test)
triethylenetetramine					
68082-29-1					
1,5-Pentanediamine, 2-methyl-	readily biodegradable	aerobic	100 %	21 d	OECD Guideline 301 D (Ready
15520-10-2					Biodegradability: Closed Bottle
					Test)
Salicylic acid	readily biodegradable	aerobic	88,1 %	15 d	EU Method C.4-F (Determination
69-72-7					of the "Ready"
					BiodegradabilityMITI Test)
Salicylic acid	inherently biodegradable	aerobic	100 %	4 d	OECD Guideline 302 B (Inherent
69-72-7	, ,				biodegradability: Zahn-
					Wellens/EMPA Test)
2,4,6-	not readily biodegradable.	aerobic	4 %	28 d	OECD Guideline 301 D (Ready
tris(dimethylaminomethyl)phe					Biodegradability: Closed Bottle
nol					Test)
90-72-2					,
N-(3-		aerobic	50 %		OECD Guideline 301 A (new
(Trimethoxysilyl)propyl)ethyl					version) (Ready Biodegradability:
enediamine					DOC Die Away Test)
1760-24-3					,
3,6-	not inherently	aerobic	0 %	28 d	OECD Guideline 302 B (Inherent
diazaoctanethylenediamine	biodegradable				biodegradability: Zahn-
112-24-3					Wellens/EMPA Test)
3,6-	not readily biodegradable.	aerobic	0 %	162 d	OECD Guideline 301 D (Ready
diazaoctanethylenediamine					Biodegradability: Closed Bottle
112-24-3					Test)
4,4'-	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 C (Ready
Methylenebis(cyclohexylamin	, , ,				Biodegradability: Modified MITI
e)					Test (I))
1761-71-3					

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	18 - 219	56 d		Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	< 60	60 d	24 °C	Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)

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12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Isophorone diamine 2855-13-2	0,99	23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
benzyl alcohol 100-51-6	1,05	20 °C	EU Method A.8 (Partition Coefficient)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	10,34		QSAR (Quantitative Structure Activity Relationship)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	2,68	21 °C	EU Method A.8 (Partition Coefficient)
1,5-Pentanediamine, 2- methyl- 15520-10-2	<= 1	25 °C	other guideline:
Salicylic acid 69-72-7	2,26	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2,4,6- tris(dimethylaminomethyl)phe nol 90-72-2	-0,66	21,5 °C	EPA OPPTS 830.7550 (Partition Coefficient, n-octanol / H2O, Shake Flask Method)
N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3	-1,67		not specified
3,6- diazaoctanethylenediamine 112-24-3	-2,65		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	2,2	23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Isophorone diamine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
2855-13-2	Bioaccumulative (vPvB) criteria.
benzyl alcohol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
100-51-6	Bioaccumulative (vPvB) criteria.
Fatty acids, C18 unsaturated, dimers, polymers	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
with tall oil fatty acids and triethylenetetramine	Bioaccumulative (vPvB) criteria.
68082-29-1	
Formaldehyde, polymer with benzenamine,	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
hydrogenated	Bioaccumulative (vPvB) criteria.
135108-88-2	
1,5-Pentanediamine, 2-methyl-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
15520-10-2	Bioaccumulative (vPvB) criteria.
Salicylic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
69-72-7	Bioaccumulative (vPvB) criteria.
2,4,6-tris(dimethylaminomethyl)phenol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
90-72-2	Bioaccumulative (vPvB) criteria.
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
1760-24-3	Bioaccumulative (vPvB) criteria.
3,6-diazaoctanethylenediamine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
112-24-3	Bioaccumulative (vPvB) criteria.
4,4'-Methylenebis(cyclohexylamine)	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
1761-71-3	Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

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not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

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

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	1759
RID	1759
ADN	1759
IMDG	1759
IATA	1759

14.2. UN proper shipping name

ADR	CORROSIVE SOLID, N.O.S. (Isophoronediamine,2-Methylpentane-1,5-diamine)
RID	CORROSIVE SOLID, N.O.S. (Isophoronediamine, 2-Methylpentane-1,5-diamine)
ADN	CORROSIVE SOLID, N.O.S. (Isophoronediamine,2-Methylpentane-1,5-diamine)
IMDG	CORROSIVE SOLID, N.O.S. (Isophoronediamine,2-Methylpentane-1,5-diamine)
IATA	Corrosive solid, n.o.s. (Isophoronediamine,2-Methylpentane-1,5-diamine)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	not applicable
RID	not applicable

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ADN not applicable IMDG not applicable IATA not applicable

14.6. Special precautions for user

ADR not applicable
Tunnelcode: (E)
RID not applicable
ADN not applicable
IMDG not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

not applicable

IATA

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): Not applicable Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

VOC content 7,55 %

(2010/75/EC)

National regulations/information (Germany):

WGK: WGK 3: highly hazardous to water (Ordinance on facilities for handling

substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 8A

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

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

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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