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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 17.12.2019 / 0001

Replacing version dated / version: 17.12.2019 / 0001

Valid from: 17.12.2019 PDF print date: 02.06.2021 4F-Primer universal Hardener 2 kg

Art.: 9095823

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

4F-Primer universal Hardener 2 kg

Art.: 9095823

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

Relevant identified uses of the substance or mixture:

Coating

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Acute Tox.	4	H302-Harmful if swallowed.
Skin Corr.	1B	H314-Causes severe skin burns and eye damage.
Eye Dam.	1	H318-Causes serious eye damage.
Skin Sens.	1	H317-May cause an allergic skin reaction.

2.2 Label elements





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Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H302-Harmful if swallowed. H314-Causes severe skin burns and eye damage. H317-May cause an allergic skin reaction.

P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing / eye protection / face protection.

P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

3-aminomethyl-3,5,5-trimethylcyclohexylamine Benzyl alcohol

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 < 0.1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

C-I Trimedics	
Benzyl alcohol	
Registration number (REACH)	
Index	603-057-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	202-859-9
CAS	100-51-6
content %	25-50
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP), M-factors	Acute Tox. 4, H312
	Acute Tox. 4, H332

3-aminomethyl-3,5,5-trimethylcyclohexylamine
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Registration number (REACH)	
Index	612-067-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	220-666-8
CAS	2855-13-2
content %	5-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H312
(CLP), M-factors	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Skin Sens. 1, H317
	Aquatic Chronic 3, H412
	Eye Dam. 1, H318

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Cauterizations not treated lead to wounds difficult to heal.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Corrosive burns on skin as well as mucous membrane possible.

Risk of serious damage to eyes.

Conjunctivitis

Corneal damage.

Danger of blindness.

Ingestion:

pain in the mouth and throat

stomach pain

Oesophageal perforation





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Gastric perforation

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Ammonia

Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away.

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.





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In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Under all circumstances prevent penetration into the soil.

Protect from direct sunlight and warming.

Store in a well ventilated place.

Store cool.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Benzyl alcohol									
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note			
	Environmental		or						
	compartment								
	Environment -		PNEC	1	mg/l				
	freshwater								
	Environment - marine		PNEC	0,1	mg/l				
	Environment -		PNEC	39	mg/l				
	sewage treatment								
	plant								
	Environment -		PNEC	5,27	mg/kg				
	sediment, freshwater								
	Environment -		PNEC	0,527	mg/kg				
	sediment, marine								
	Environment - soil		PNEC	0,456	mg/kg				
Consumer	Human - dermal	Short term,	DNEL	28,5	mg/kg				
		systemic effects							





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Consumer	Human - inhalation	Short term, systemic effects	DNEL	40,55	mg/m3
Consumer	Human - oral	Short term, systemic effects	DNEL	25	mg/kg
Consumer	Human - dermal	Long term, systemic effects	DNEL	5,7	mg/kg
Consumer	Human - inhalation	Long term, systemic effects	DNEL	8,11	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	47	mg/kg
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	450	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	9,5	mg/kg
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	90	mg/m3

3-aminomethyl-3,5,5-trimethylcyclohexylamine										
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note				
	Environmental		or							
	compartment									
	Environment -		PNEC	0,06	mg/l					
	freshwater									
	Environment - marine		PNEC	0,006	mg/l					
	Environment -		PNEC	3,18	mg/l					
	sewage treatment									
	plant									
	Environment - soil		PNEC	1,121	mg/kg					
	Environment -		PNEC	0,23	mg/l					
	sporadic									
	(intermittent) release									
	Environment -		PNEC	5,784	mg/kg					
	sediment, freshwater									
	Environment -		PNEC	0,578	mg/kg					
	sediment, marine									
Consumer	Human - oral	Long term,	DNEL	0,523	mg/kg					
		systemic effects			bw/d					
Workers / employees	Human - inhalation	Short term,	DNEL	20,1	mg/m3					
		systemic effects								
Workers / employees	Human - inhalation	Short term, local	DNEL	20,1	mg/m3					
		effects								

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.





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Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective gloves in butyl rubber (EN 374).

Minimum layer thickness in mm:

>=0.5

Protective gloves made of fluorocarbon rubber (EN 374).

Minimum layer thickness in mm:

>=0.4

Permeation time (penetration time) in minutes:

>=480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.





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8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: Light yellow, Transparent

Odour: Characteristic
Odour threshold: Not determined
pH-value: Not determined
Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flash point: Not determined
Evaporation rate: Not determined

Flammability (solid, gas): n.a.

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Not determined

Not determined

Not determined

Not determined

Not determined

Not determined

1,03 g/cm3 (20°C)

Bulk density: n.a.

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Vot determined

Not determined

Not determined

Explosive properties: Product is not explosive. When using: development of

explosive vapour/air mixture possible.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

10.5 Incompatible materials





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Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

4F-Primer universal Har	rdener 2 kg	5				
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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	ATE	1797	mg/kg			calculated
route:						value
Acute toxicity, by	ATE	3143	mg/kg			calculated
dermal route:						value
Acute toxicity, by	ATE	22	mg/l/4h			calculated
inhalation:						value,
						Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Benzyl alcohol							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	1230	mg/kg	Rat			
route:							
Acute toxicity, by	LD50	2000	mg/kg	Rabbit			
dermal route:							
Acute toxicity, by	LC50	> 4,178	mg/l/4h	Rat	OECD 403 (Acute	Aerosol	
inhalation:					Inhalation		
					Toxicity)		





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Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Negative
Reproductive toxicity:	NOAEC	1072	mg/m3	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	200	mg/kg	Mouse		
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEC	1072	mg/kg	Rat		
Symptoms:						headaches, fatigue, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOEC	400	mg/kg	Rat	OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)	

3-aminomethyl-3,5,5-trimethylcyclohexylamine								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	1030	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	1840	mg/kg	Rabbit				
dermal route:								
Acute toxicity, by	LC50	>5,01	mg/l/4h	Rat	OECD 403 (Acute			
inhalation:					Inhalation			
					Toxicity)			
Skin corrosion/irritation:				Rabbit		Skin Corr.		
						1B		
Serious eye				Rabbit		Eye Dam. 1		
damage/irritation:								
Respiratory or skin				Guinea pig		Skin Sens. 1		
sensitisation:								





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Aspiration hazard:			No
Symptoms:			respiratory
			distress,
			burning of
			the
			membranes
			of the nose
			and throat,
			coughing,
			mucous
			membrane
			irritation

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

4F-Primer universa	4F-Primer universal Hardener 2 kg						
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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							
12.3.							n.d.a.
Bioaccumulative							
potential:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							
assessment							
12.6. Other							n.d.a.
adverse effects:							

Benzyl alcohol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence		21d	95-97	%		OECD 301 A	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - DOC	
						Die-Away	
						Test)	





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12.2. Persistence and degradability:		28d	92-96	%		OECD 301 C (Ready Biodegradabil ity - Modified MITI Test (I))	Readily biodegradabl e
12.3. Bioaccumulative potential:	Log Pow		1,1				A notable biological accumulation potential is not to be expected (LogPow 1-3)., Low
12.1. Toxicity to fish:	LC50	96h	460	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	LC50	48h	360	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	51	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	230	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to algae:	EC50	72h	770	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NO EL	72h	310	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC10	16h	658	mg/l	Pseudomonas putida	,	
12.4. Mobility in soil:	Koc		5-15				

3-aminomethyl-3,5,5-trimethylcyclohexylamine							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	110	mg/l	Leuciscus idus	Regulation	
fish:						(EC)	
						440/2008 C.1	
						(ACUTE	
						TOXICITY	
						FOR FISH)	





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10.1 75	ECEO	401	22	/1	D 1 '	OECD 202	
12.1. Toxicity to	EC50	48h	23	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	37	mg/l	Scenedesmus	DIN 38412	
algae:					subspicatus	T.9	
12.2. Persistence		28d	8	%		Regulation	Not readily
and degradability:						(EC)	biodegradabl
						440/2008 C.4-	e
						A	
						(DETERMIN	
						ATION OF	
						'READY'	
						BIODEGRAD	
						ABILITY -	
						DOC DIE-	
						AWAY	
						TEST)	
12.3.	Log Pow		0,99			OECD 107	
Bioaccumulative	Log I ow		0,99			(Partition	
potential:						Coefficient (n-	
potential.						1	
						octanol/water)	
						- Shake	
10.5 P. 1: 0			-			Flask Method)	N DDE
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC10	18h	1120	mg/l	Pseudomonas	DIN 38412	
bacteria:					putida	T.8	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

 $08\ 04\ 09$ waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.





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Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number: 1760

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1760 CORROSIVE LIQUID, N.O.S. (3-AMINOMETHYL-3,5,5-

TRIMETHYLCYCLOHEXYLAMINE)

14.3. Transport hazard class(es):814.4. Packing group:IIClassification code:C9LQ:1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: E

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

CORROSIVE LIQUID, N.O.S. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE)

14.3. Transport hazard class(es):814.4. Packing group:IIEmS:F-A, S-BMarine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Corrosive liquid, n.o.s. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE)

14.3. Transport hazard class(es): 8
14.4. Packing group: II

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!











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Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 30 g/l

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

n.a.

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance $(EG)\ 1272/2008\ (CLP)$:

Classification in accordance with regulation (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Acute Tox. 4, H302	Classification based on toxicological analyses.
Skin Corr. 1B, H314	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

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.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Acute Tox. — Acute toxicity - oral

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Skin Sens. — Skin sensitization

Acute Tox. — Acute toxicity - dermal

Acute Tox. — Acute toxicity - inhalation

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds



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approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and

Safety, Germany)

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checked

n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene





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PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.