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> 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 main component 4 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) +1 872 5888271 (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

Hazard category	Hazard statement
2	H319-Causes serious eye irritation.
2	H315-Causes skin irritation.
1	H317-May cause an allergic skin reaction.
2	H341-Suspected of causing genetic defects.
2	H411-Toxic to aquatic life with long lasting effects.
	Hazard category 2 2 1 2 2 2



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2.2 Label elements

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



H319-Causes serious eye irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H341-Suspected of causing genetic defects. H411-Toxic to aquatic life with long lasting effects.

P201-Obtain special instructions before use. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection. P308+P313-IF exposed or concerned: Get medical advice / attention.

Reaction product: bisphenol-A-(epichlorhydrin) 2,3-epoxypropyl neodecanoate

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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances	
n.a.	
3.2 Mixtures	
Reaction product: bisphenol-A-(epichlorhydrin)	
Registration number (REACH)	
Index	603-074-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	500-033-5
CAS	25068-38-6
content %	70-90
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP), M-factors	Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %



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2,3-epoxypropyl neodecanoate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	247-979-2
CAS	26761-45-5
content %	25-50
Classification according to Regulation (EC) 1272/2008	Skin Sens. 1, H317
(CLP), M-factors	Muta. 2, H341
	Aquatic Chronic 2, H411

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.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

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. eyes, reddened watering eyes reddening of the skin Dermatitis (skin inflammation)

Allergic reaction

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



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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 Hydrogen chloride Toxic gases 5.3 Advice for firefighters For personal protective equipment see Section 8. 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

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

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.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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.

SECTION 7: Handling and storage

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



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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

Reaction product: bisphenol-A-(epichlorhydrin)									
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note			
	Environmental		or						
	compartment								
	Environment -		PNEC	0,003	mg/l				
	freshwater								
	Environment - marine		PNEC	0,000	mg/l				
				3					
	Environment - water,		PNEC	0,018	mg/l				
	sporadic								
	(intermittent) release								
	Environment -		PNEC	10	mg/l				
	sewage treatment				-				
	plant								
	Environment -		PNEC	0,5	mg/kg				
	sediment, freshwater				dw				
	Environment -		PNEC	0,5	mg/kg				
	sediment, marine				dw				



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	Environment - soil		PNEC	0,05	mg/kg dw
	Environment - oral (animal feed)		PNEC	11	mg/kg
Consumer	Human - dermal	Short term, systemic effects	DNEL	3,571	mg/kg bw/day
Consumer	Human - oral	Short term, systemic effects	DNEL	0,75	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	0,75	mg/kg bw/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,75	mg/m3
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,75	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	3,6	mg/kg bw/day
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	8,33	mg/kg bw/day
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	12,25	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	12,3	mg/m3

2,3-epoxypropyl neod	ecanoate					
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,001	mg/l	
	freshwater					
	Environment - marine		PNEC	0,000	mg/l	
				12		
	Environment - water,		PNEC	0,012	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	50	mg/l	
	sewage treatment					
	plant					
	Environment -		PNEC	0,012	mg/kg	
	sediment, freshwater				dw	
	Environment -		PNEC	0,002	mg/kg	
	sediment, marine				dw	
Consumer	Human - inhalation	Long term,	DNEL	1,6	mg/m3	
		systemic effects				
Consumer	Human - dermal	Long term,	DNEL	1,15	mg/kg	
		systemic effects			bw/d	
Workers / employees	Human - inhalation	Long term,	DNEL	2,7	mg/m3	
		systemic effects				



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Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	10,4	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,9	mg/kg bw/d	

8.2 Exposure controls8.2.1 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.

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 ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: >= 0,5 Protective gloves made of fluorocarbon rubber (EN ISO 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 air supply is not sufficient, wear protective breathing apparatus. 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.



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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.

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
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Combustible.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	There is no information available on this parameter.
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	>40 mPas (20°C, Dynamic viscosity)
Solubility:	Not miscible
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	1,14 g/cm3 (20°C)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive. When using: development of
	explosive vapour/air mixture possible.
Oxidising liquids:	No

SECTION 10: Stability and reactivity

10.1 ReactivityThe product has not been tested.10.2 Chemical stabilityStable with proper storage and handling.10.3 Possibility of hazardous reactions



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No dangerous reactions are known. **10.4 Conditions to avoid** Heating, open flame, ignition sources **10.5 Incompatible materials** Avoid contact with strong alkalis. 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 hazard classes as defined in Regulation (EC) No 1272/2008

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

4F-Primer universal mai	in compone	ent 4 kg				
Art.: 9095823 Toxicity / effect	Endnoi	Value	Unit	Organism	Test method	Notes
Toxicity / effect	Endpoi nt	value	Unit	Organism	i est method	Inotes
Acute toxicity, by oral	ш					n.d.a.
route:						in.u.u.
Acute toxicity, by						n.d.a.
dermal route:						lindia
Acute toxicity, by						n.d.a.
inhalation:						
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.

Reaction product: bisphenol-A-(epichlorhydrin)								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	>11400	mg/kg	Rat				
route:								
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute			
dermal route:					Dermal Toxicity)			



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Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Skin Irrit. 2
					Irritation/Corrosio	
a :				D 11.	n)	F I C
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Mouse	OECD 429 (Skin	Sensitising
sensitisation:					Sensitisation -	(skin
					Local Lymph	contact)
					Node Assay)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Sensitising
sensitisation:					Sensitisation)	(skin
						contact)
Germ cell mutagenicity:					OECD 472	Negative
					(Genetic	
					Toxicology -	
					Escherichia coli,	
					Reverse Assay)	
Carcinogenicity:				Rat	OECD 453	Negative
0					(Combined	U U
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity:	NOEL	540	mg/kg		OECD 416 (Two-	
			8		generation	
					Reproduction	
					Toxicity Study)	
Reproductive toxicity:				Rat	OECD 414	Negative
ineproductive tonicity.					(Prenatal	1 togati to
					Developmental	
					Toxicity Study)	
Aspiration hazard:					romony Study)	No
Symptoms:						diarrhoea,
Symptoms.						weight loss
Symptoms:						eyes,
Symptoms.						reddened,
						watering
						U
						eyes

2,3-epoxypropyl neodecanoate						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>9590	mg/kg	Rat		
route:						
Acute toxicity, by	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	



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Skin corrosion/irritation:	Rabbit	OECD 404 (Acute	Not irritant
		Dermal	
		Irritation/Corrosio	
		n)	
Serious eye	Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:		Eye	
		Irritation/Corrosio	
		n)	
Respiratory or skin	Guinea pig	OECD 406 (Skin	Skin Sens. 1
sensitisation:		Sensitisation)	
Germ cell mutagenicity:		OECD 471	Positive,
		(Bacterial Reverse	Muta. 2
		Mutation Test)	
Germ cell mutagenicity:	Mouse	OECD 488	Positive,
		(Transgenic	Muta. 2
		Rodent Somatic	
		and Germ Cell	
		Gene Mutation	
		Assays)	

11.2. Information on other hazards

4F-Primer universal main component 4 kg Art.: 9095823						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Endocrine disrupting						Does not
properties:						apply to
						mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse
						effects on
						health.

SECTION 12: Ecological information

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

4F-Primer universal main component 4 kg							
Art.: 9095823	Art.: 9095823						
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:							



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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. Endocrine		Does not
disrupting		apply to
properties:		mixtures.
12.7. Other		No
adverse effects:		information
		available on
		other
		adverse
		effects on
		the
		environment.

Reaction product: bisphenol-A-(epichlorhydrin)							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
12.1. Toxicity to	NOEC/NO	72h	2,4	mg/l	Selenastrum	OECD 201	
algae:	EL				capricornutum	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	LC50	96h	2	mg/l	Leuciscus idus		
fish:							
12.1. Toxicity to	LC50	96h	1,5	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	1,1	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	21d	0,3	mg/l	Daphnia	OECD 211	
daphnia:	EL				magna	(Daphnia	
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	72h	9,4	mg/l	Selenastrum	U.S. EPA	
algae:					capricornutum	ECOTOX	
						Database	



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12.1. Toxicity to	EC50	96h	220	mg/l	Scenedesmus		
algae:	2000	2011			subspicatus		
12.2. Persistence		28d	5	%	^	OECD 301 F	Not readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
						Test)	
12.3.	Log Pow		3,242			Regulation	
Bioaccumulative						(EC)	
potential:						440/2008 A.8	
						(PARTITION COEFFICIEN	
						T)	
Other information:						1)	Contains
							organically
							bound
							halogens,
							which may
							contribute to
							the AOX
							value in
							wastewater.
Toxicity to	IC50	3h	>100	mg/l	activated		
bacteria:					sludge		

2,3-epoxypropyl ne	2,3-epoxypropyl neodecanoate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	5	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	4,8	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	ErC50	72h	2,9	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	7	%		OECD 301 D	Not readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Closed	
						Bottle Test)	



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

SECTION 14: Transport information

General statements 14.1. UN number or ID number:	3082	
Transport by road/by rail (ADR/RID)	5082	
14.2. UN proper shipping name:		
UN 3082 ENVIRONMENTALLY HAZARDOUS SU	PSTANCE LIQUID NOS (EDOVY	
RESIN,2,3-EPOXYPROPYL NEODECANOATE)	DSTANCE, LIQUID, N.O.S. (EFOAT	ሔ
14.3. Transport hazard class(es):	9	AIIIP
14.5. Transport nazard class(es). 14.4. Packing group:	9 III	₩
Classification code:	M6	<\\>
	5L	\sim
LQ:	02	
14.5. Environmental hazards:	environmentally	
	hazardous	
Tunnel restriction code:	-	
Transport by sea (IMDG-code)		
14.2. UN proper shipping name:		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE	, LIQUID, N.O.S. (EPOXY RESIN,2,3-	
EPOXYPROPYL NEODECANOATE)		,dfh,
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	¥
EmS:	F-A, S-F	×4
Marine Pollutant:	Yes	
14.5. Environmental hazards:	environmentally	
	hazardous	
Transport by air (IATA)		
14.2. UN proper shipping name:		
Environmentally hazardous substance, liquid, n.o.s. (EP	OXY RESIN,2,3-EPOXYPROPYL	
NEODECANOATE)		ፈመ
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	- AL
14.5. Environmental hazards:	environmentally	
	hazardous	\sim



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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. Maritime transport in bulk according to IMO instruments

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)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article 3(10) for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

30 g/l

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 1-16 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.



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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) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Muta. 2, H341	Classification according to calculation procedure.
Aquatic Chronic 2, H411	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).

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation Skin Irrit. — Skin irritation Skin Sens. — Skin sensitization Muta. — Germ cell mutagenicity Aquatic Chronic — Hazardous to the aquatic environment - chronic

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164 (EU) 2010/1821, and an amended

2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)



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not available n.av.

n.c. not checked

n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

persistent, bioaccumulative and toxic PBT

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per millionPVC 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

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wet weight wwt

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.