

EPROPOX FC 15 A | FC 30 A | HC 120 A

	Version 7.0 [2.0 SDB_GB]	Revision Date 18.10.2014	Print Date 03.11.2014
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product	identifier

Trade name

: EPROPOX FC 15 A

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

Use of the Sub- : Casting Resin stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company	Trelleborg Pipe Seals Duisburg GmbH
	DrAlfred-Herrhausen-Allee 36
	47228 Duisburg
	Germany
Telephone	+49 (0) 2065 999-0
Telefax	+49 (0) 2065 999-111
E-mail address	technic.epros@trelleborg.com

1.4 Emergency telephone number +49 (0) 2065 999-150

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127	-
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.
Classification (67/548/EEC, 1999/45/EC)	
Sensitising	R43: May cause sensitisation by skin contact.
Irritant	R36/38: Irritating to eyes and skin.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environ- ment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms	:			
Signal word	:	Warning		
Hazard statements	:	H315 H317 H319 H411	Causes skin irritation. May cause an allergic sk Causes serious eye irrita Toxic to aquatic life with	tion.
Precautionary statements	:	Prevention: P261 P273 P280 P280 Response: P333 + P313 P337 + P313	Avoid breathing dust/ fum pours/ spray. Avoid release to the envi Wear eye protection/ face Wear protective gloves. If skin irritation or rash oc advice/ attention. If eye irritation persists: C attention.	ronment. e protection. ccurs: Get medical

Hazardous components which must be listed on the label: reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)

Epichlorohydrin-formaldehyde-phenol polymer number average molecular weight # 700

1,6-bis(2,3-epoxypropoxy)hexane

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Modified epoxy resin

Hazardous components

Chemical Name	CAS-No.	Classification	Classification	Concentration
	EC-No.	(67/548/EEC)	(REGULATION	(%)
	Registration		(EC) No	
	number		1272/2008)	
reaction product:	25068-38-6	Xi; R36/38	Eye Irrit. 2; H319	>= 50 - <= 100
bisphenol-A-		R43	Skin Irrit. 2; H315	
(epichlorhydrin) and	01-	N; R51-R53	Skin Sens. 1; H317	
epoxy resin (number	2119456619-26		Aquatic Chronic 2;	
average molecular			H411	



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weight <= 700)	1	l	I	
Epichlorohydrin- formaldehyde-phenol polymer number aver- age molecular weight # 700	9003-36-5	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 10 - < 12,5
1,6-bis(2,3- epoxypropoxy)hexane	16096-31-4 240-260-4 01- 2119463471-41	Xi; R36/38 Xi; R43 N; R52/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 7 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Keep warm and in a quiet place. Show this safety data sheet to the doctor in attendance. Take off all contaminated clothing immediately.		
If inhaled	 Move to fresh air. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration. 		
In case of skin contact	: Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners. If on clothes, remove clothes. If skin irritation persists, call a physician.		
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist. If easy to do, remove contact lens, if wom. 		
If swallowed	: Keep at rest. Do not induce vomiting without medical advice. Keep respiratory tract clear. If symptoms persist, call a physician.		
4.2 Most important symptoms and effects, both acute and delayed			
Symptoms	: irritant effects Redness sensitising effects		

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Foam Sand Carbon dioxide (CO2) Water mist
Unsuitable extinguishing media	: Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-	: The pressure in sealed containers can increase under the
fighting	influence of heat.
	Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Further information	:	In the event of fire and/or explosion do not breathe fumes. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Refer to protective measures listed in sections 7 and 8. Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.
6.2 Environmental precautions	
Environmental precautions	: Do not allow uncontrolled discharge of product into the envi- ronment.
	Try to prevent the material from entering drains or water courses.

Local authorities should be advised if significant spillages cannot be contained.



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6.3 Methods and material for containment and cleaning up

Methods for deaning up	 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Pick up and transfer to properly labelled containers.
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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1	Precautions for safe handling		
	Advice on safe handling	:	Provide sufficient air exchange and/or exhaust in work rooms. Avoid inhalation, ingestion and contact with skin and eyes. Wear personal protective equipment. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
	Advice on protection against fire and explosion	:	Keep away from open flames, hot surfaces and sources of ignition.
	Hygiene measures	:	Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.
7.2	Conditions for safe storage, in	ncl	uding any incompatibilities
	Requirements for storage areas and containers	:	Keep containers tightly closed in a dry, cool and well- ventilated place. Keep in properly labelled containers.
	Advice on common storage	:	Keep away from oxidising agents, strongly acid or alkaline materials and amines. Keep product and empty container away from heat and sources of ignition. Keep away from food and drink.
	Other data	:	Stable at normal ambient temperature and pressure.
7.3	Specific end use(s)		
	Specific use(s)	:	Consult the technical guidelines for the use of this sub- stance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.



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Derived No Effect Level (DNEL	.) according to Regulation (EC) No.	1907/2006:
reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average mo- lecular weight <= 700)	 End Use: Workers Exposure routes: Skin contact Potential health effects: Acute systemic effects Value: 8,33 mg/kg End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systeffects Value: 12,25 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Acute systemic effects Value: 3,571 mg/kg End Use: Consumers Exposure routes: Ingestion Potential health effects: Acute systemic effects 	temic effects, Long-term local temic effects, Long-term sys-
1,6-bis(2,3- epoxypropoxy)hexane	Value: 0,75 mg/kg : End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term Value: 2,8 mg/kg End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term	
	Value: 4,9 mg/m3	
	ation (PNEC) according to Regulation	n (EC) No. 1907/2006:
reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average mo- lecular weight <= 700)	: Fresh water Value: 0,006 mg/l	
	Marine water Value: 0,0006 mg/l Intermittent releases Value: 0,018 mg/l Sewage treatment plant Value: 10 mg/l	
	Fresh water sediment Value: 0,996 mg/kg Marine sediment Value: 0,0996 mg/kg Soil Value: 0,196 mg/kg	
1,6-bis(2,3- epoxypropoxy)hexane	: Sewage treatment plant Value: 1 mg/l Fresh water Value: 0,0115 mg/l Fresh water sediment Value: 0,283 mg/kg Marine water Value: 0,00115 mg/l Marine sediment	



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	Value: 0,0283 mg/kg Soil Value: 0,223 mg/kg	
8.2 Exposure controls	value. 0,220 mg/ng	
Engineering measures Effective exhaust ventilation effective ventilation in all pro		
Personal protective equipr	ent	
Eye protection	: Do not wear contact lenses. Safety glasses with side-shi Ensure that eyewash station the workstation location.	-
Hand protection		
Material	: Chemical resistant gloves m ber category III according to	nade of butyl rubber or nitrile rub- EN 374.
Skin and body protection	: Protective suit	
Respiratory protection	: Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an ap- proved filter. Respirator with a vapour filter (EN 141) Apply technical measures to comply with the occupational exposure limits. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.	
Protective measures	: Avoid contact with skin. Wear suitable protective equ	uipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	light yellow
Odour	:	slight
Odour Threshold	:	not determined
рН	:	not determined
Melting point/freezing point	:	Not applicable
Boiling point/boiling range	:	> 200 °C
Flash point	:	150 °C



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Eveneration into	: not determined	
Evaporation rate		
Upper explosion limit	: Not applicable	
Lower explosion limit	: Not applicable	
Vapour pressure	: Not applicable	
Relative vapour density	: not determined	
Density	: 1,15 g/cm3 (25 °C)	
Bulk density	: not determined	
Solubility(ies) Solubility in other solvents	: not determined	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: Not applicable	
Thermal decomposition	: Method: No data available	
Viscosity Viscosity, dynamic	: 2.400 - 3.600 mPa.s (25 °C)	
Viscosity, kinematic	: not determined	
Explosive properties	: Not applicable	
Oxidizing properties	: Not applicable	
9.2 Other information		
Surface tension	: not determined	
Sublimation point	: Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:



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	Bases Strong oxidizing agents Avoid amines.	
10.4 Conditions to avoid		
Conditions to avoid	: No decomposition if used as directed.	
10.5 Incompatible materials		
Materials to avoid	: Incompatible with oxidizing agents.	
10.6 Hazardous decomposition pro	ducts	
Hazardous decomposition products	: This product may release the following: Carbon monoxide, carbon dioxide and unb bons (smoke).	umed hydrocar-

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

reaction product: bisphenol-A weight <= 700):	-(epichlorhydrin) and epoxy resin (number average molecular
Acute oral toxicity	: LD50 (Rat, female): > 2.000 mg/kg Method: OECD Test Guideline 420 GLP: yes
Acute dermal toxicity	: LD50 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yes

Skin corrosion/irritation

Product:

Remarks: No data available

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700): Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: Skin irritation GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: No data available



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Respiratory or skin sensitisation

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700): Test Type: Mouse Local Lymph Node assay (LLNA) Species: Mouse Method: OECD Test Guideline 429 Result: May cause sensitisation by skin contact. GLP: yes

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

Product:

Remarks: Not applicable

STOT - repeated exposure

Aspiration toxicity

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700): No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Components: reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700): Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 1,7 mg/l aquatic invertebrates Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Toxicity to daphnia and other : NOEC: 0,3 mg/l aquatic invertebrates Exposure time: 21 d (Chronic toxicity) Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes



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12.2 Persistence and degradability

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):

Biodegradability : Result: Not readily biodegradable. Method: OECD Test Guideline 301F GLP: yes

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment Not relevant

12.6 Other adverse effects

Product:

Additional ecological informa-	:	Remarks: An environmental hazard	cannot be	excluded	in the
tion		event of unprofessional handling or	disposal.		

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 In accordance with local and national regulations. Container hazardous when empty. Do not dispose of with domestic refuse. Do not mix waste streams during collection.
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number	
ADR/RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082
14.2 UN proper shipping name	
ADR/RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)
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ΙΑΤΑ	: Environmentally hazardous substance, lic (Epoxy resin)	quid, n.o.s.
14.3 Transport hazard class(es)		
ADR/RID	: 9	
IMDG	: 9	
ΙΑΤΑ	: 9	
14.4 Packing group		
ADR/RID Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: III : M6 : 90 : 9 : E	
IMDG Packing group	: 111	
Labels EmS Code	: 9 : F-A, S-F	
IATA Packing instruction (cargo aircraft) Packing instruction (passen-	: 964 : 964	
ger aircraft)		
Packing group Labels	: III : 9	
14.5 Environmental hazards		
ADR/RID Environmentally hazardous	: yes	
IMDG Marine pollutant	: yes	
14.6 Special precautions for user Not applicable		
4.7 Transport in bulk according Not applicable for product as s	to Annex II of MARPOL 73/78 and the IBC upplied.	Code

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REACH - Restrictions on the manufacture, placing on
the market and use of certain dangerous substances,
preparations and articles (Annex XVII) : Not applicable REACH - Candidate List of Substances of Very High
Concem for Authorisation (Article 59). : This product does not contain sub-
stances of very high concern (Regu-
lation (EC) No 1907/2006 (REACH),
Article 57).



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REACH - List of substances subject to authorisation : Not applicable (Annex XIV)					
Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major- accident hazards involving dangerous substances					
9b	Dangerous for the envi- ronment	Quantity 1 200 t	Quantity 2 500 t		
45.0 Chamiaal Cafaty Assessme	-4				

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases			
R36/38	:	Irritating to eyes and skin.	
R43	:	May cause sensitisation by skin contact.	
R51		Toxic to aquatic organisms.	
R51/53	:	To xic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
R52/53	:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
R53	:	May cause long-term adverse effects in the aquatic environ- ment.	
Full text of H-Statements			
H315	:	Causes skin irritation.	
H317	:	May cause an allergic skin reaction.	
H319	:	Causes serious eye irritation.	
H411	:	Toxic to aquatic life with long lasting effects.	
H412	:	Harmful to aquatic life with long lasting effects.	
Full text of other abbreviations			
Aquatic Chronic	:	Chronic aquatic toxicity	
Eye Irrit.	:	Eye irritation	
Skin Irrit.	:	Skin irritation	
Skin Sens.	:	Skin sensitisation	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.