

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : EPROPOX HC 60 A/HC 180 A

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Casting Resin**1.3 Details of the supplier of the safety data sheet**

Company	Trelleborg Pipe Seals Duisburg GmbH Dr.-Alfred-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 1272/2008)**

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 environment.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**


SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Hazard pictograms	:	
Signal word	:	Warning
Hazard 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.
Precautionary statements	:	Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. P280 Wear protective gloves. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Modified epoxy resin

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight ≤ 700)	25068-38-6 01- 2119456619-26	Xi; R36/38 R43 N; R51-R53	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	$\geq 50 - \leq 100$
Epichlorohydrin-	9003-36-5	Xi; R36/38	Skin Irrit. 2; H315	$\geq 10 - < 12,5$

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

formaldehyde-phenol polymer number aver- age molecular weight # 700		R43 N; R51/53	Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	
--	--	------------------	--	--

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 worn.
- 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Foam

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Sand
Carbon dioxide (CO₂)
Water mist

Unsuitable extinguishing media : Water sprayjet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : The pressure in sealed containers can increase under the 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 circumstances 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 environment.
Try to prevent the material from entering drains or water courses.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning 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).

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Pick up and transfer to properly labelled containers.

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, including 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 substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

- reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight \leq 700) : End Use: Workers
Exposure routes: Skin contact
Potential health effects: Acute systemic effects, Long-term systemic effects
Value: 8,33 mg/kg
End Use: Workers

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Exposure routes: Inhalation
 Potential health effects: Acute systemic effects, Long-term local effects
 Value: 12,25 mg/m³
 End Use: Consumers
 Exposure routes: Skin contact
 Potential health effects: Acute systemic effects, Long-term systemic effects
 Value: 3,571 mg/kg
 End Use: Consumers
 Exposure routes: Ingestion
 Potential health effects: Acute systemic effects, Long-term systemic effects
 Value: 0,75 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

reaction product: bisphenol-A- : Fresh water
 (epichlorhydrin) and epoxy Value: 0,006 mg/l
 resin (number average molecular weight <= 700)

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

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system
 effective ventilation in all processing areas

Personal protective equipment

Eye protection : Do not wear contact lenses.
 Safety glasses with side-shields conforming to EN166
 Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection
 Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Skin and body protection : Protective suit

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
 In the case of vapour formation use a respirator with an approved filter.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB_GB]

Revision Date 28.10.2014

Print Date 03.11.2014

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 equipment.

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

pH : not determined

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 200 °C

Flash point : 150 °C

Evaporation rate : not determined

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : not determined

Density : 1,16 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Viscosity
Viscosity, dynamic : 9.000 - 12.000 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:
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 products

Hazardous decomposition products : This product may release the following:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Acute oral toxicity : Remarks: No data available

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

Respiratory or skin sensitisation**Product:**

Remarks: No data available

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

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006**EPROPOX HC 60 A/HC 180 A**

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Germ cell mutagenicity**Carcinogenicity****Reproductive toxicity****STOT - single exposure****Product:**

Remarks: Not applicable

STOT - repeated exposure**Repeated dose toxicity****Product:**

Remarks: No data available

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

No aspiration toxicity classification

Further information**Product:**

Remarks: No data available

SECTION 12: Ecological information**12.1 Toxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

12.2 Persistence and degradability**Product:**

Biodegradability : Remarks: No data available

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**Product:**

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects**Product:**

Additional ecological information : Remarks: An environmental hazard cannot be excluded in the 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 handling site for recycling or disposal.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB_GB]

Revision Date 28.10.2014

Print Date 03.11.2014

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)
IATA : Environmentally hazardous substance, liquid, n.o.s.
(Epoxy resin)

14.3 Transport hazard class(es)

ADR/RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR/RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : E
IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F
IATA
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Packing group : III
Labels : 9

14.5 Environmental hazards

ADR/RID
Environmentally hazardous : yes
IMDG
Marine pollutant : yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB GB]

Revision Date 28.10.2014

Print Date 03.11.2014

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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 Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

		Quantity 1	Quantity 2
9b	Dangerous for the environment	200 t	500 t

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 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R53 : May cause long-term adverse effects in the aquatic environment.

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.

Full text of other abbreviations

Aquatic Chronic : Chronic aquatic toxicity
 Eye Irrit. : Eye irritation
 Skin Irrit. : Skin irritation
 Skin Sens. : Skin sensitisation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EPROPOX HC 60 A/HC 180 A

Version 7.0 [2.0 SDB_GB]

Revision Date 28.10.2014

Print Date 03.11.2014

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.