

H. A. Springer marine + industrie service GmbH
24145 Kiel

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1 Identification of the substance / preparation and of the company

1.1 Product identifier

EPOCAST-INDUSTRIE, BASIS MASS

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

2-Components casting resin, basis resin

1.3 Details of the supplier of the safety data sheet

Company

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Liebigstraße 21
24145 Kiel / GERMANY
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E-mail: info-springer@springer-kiel.com

Responsible

Schroeder@chemiebuero.de

1.4 Emergency phone

+49 (0) 89-19240 (24h)

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not applicable

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Xi-N, R 36/38-43-51/53

2.2 Label elements

Hazard symbols



Irritant



Dangerous for the environment

Contains

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)

R-phrases

R 36/38: Irritating to eyes and skin.
R 43: May cause sensitisation by skin contact.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

S 24/25: Avoid contact with skin and eyes.
S 29/35: Do not empty into drains. Dispose of this material and its container in a safe way.
S 37: Wear suitable gloves.

Special labelling

Contains epoxy-containing compounds. Observe manufacturer's instructions.

2.3 Other hazards

Physico-chemical hazards

No particular hazards known.

Environmental hazards

Does not contain any PBT or vPvB substances.

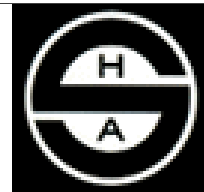
Other hazards

Further hazards were not determined with the current level of knowledge.

3 Composition / Information on ingredients

3.1 Substances

The product in question is a mixture.



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3.2 Mixtures

Range [%]	Substance
50 - < 100	Quartz (< 10µm) CAS: 14808-60-7, EINECS/ELINCS: 238-878-4 GHS/CLP: STOT RE 1, H372b EEC: Xn R48/20
25 - < 50	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700) CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8 GHS/CLP: Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 - Aquatic Chronic 2, H411 EEC: Xi-N R36/38-43-51/53

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide. Water spray jet. Dry powder. Foam.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

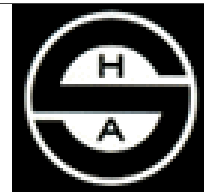
6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.



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6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of absorbed material in accordance within the regulations.
Take up residues with absorbent material (f.ex. diatomaceous earth).

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Keep container tightly closed.
Store in a dry place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

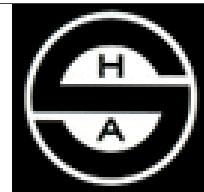
8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance / WEL: Workplace exposure limit
50 - < 100	Quartz (< 10µm) / - ppm, 0,1 mg/m ³ , respirable, crystalline

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	Butyl rubber, >480 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Light protective clothing of plastic material.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Remove soiled or soaked clothing immediately. Do not eat, drink, smoke or take drugs at work. Use barrier skin cream. Wash hands before breaks and after work.
Respiratory protection	not applicable
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See Chapter 6+7.



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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	brown
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not determined

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

The product is stable under standard conditions.

10.2 Chemical stability

No dangerous reactions known if used as directed.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with strong acids and alkalis.

10.4 Conditions to avoid

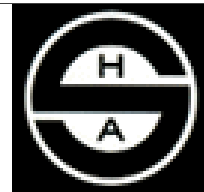
See chapter 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 700, CAS: 25068-38-6)
LD50, oral, Rat: 13600 mg/kg.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.

12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

	not determined
Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

The product contains organically bound halogen in accordance with the formulation.

13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

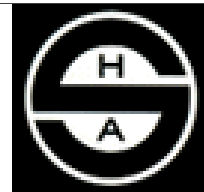
080409*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*
150102



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14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Classification according to ADR

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III

- Classification Code

M6

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Classification according to IMDG

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III
MARINE POLLUTANT

- EMS

F-A, S-F

- Label



- IMDG LQ

5 I

Classification according to IATA

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin-mixture) 9 III

- Label



14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name



14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not determined

15 Regulatory information

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

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

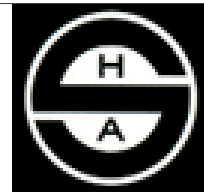
DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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16 Other informations

R-phrases (Chapter 03)	R 36/38: Irritating to eyes and skin. R 43: May cause sensitisation by skin contact. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
Hazard statements (Chapter 03)	H319 Causes serious eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Observe employment restrictions for people	yes
VOC (1999/13/CE)	0 %

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