

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 22.03.2010

Version: 1.1

Product: **CONCRESlVE 1380 PART A**

(30506499/SDS_GEN_EU/EN)

Date of print 12.05.2010

1. Identification of the substance/mixture and of the company/undertaking

CONCRESlVE 1380 PART A

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Construction Chemicals

Telephone: +49 621 60-74354

Telefax number: +49 621 60-6674354

E-mail address: info.construction-chemicals@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Classification of the substance and mixture:

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 2

Skin sensitizer: Cat. 1

Chronic hazards to the aquatic environment: Cat. 2

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

Irritant.

Dangerous for the environment.

Irritating to eyes and skin.

May cause sensitization by skin contact.

3. Composition/Information on Ingredients

Chemical nature

Preparation based on: epoxy resin

Hazardous ingredients

according to Directive 1999/45/EC

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

Content (W/W): >= 40 % - <= 80 %

CAS Number: 25068-38-6

EC-Number: 500-033-5

INDEX-Number: 603-074-00-8

Hazard symbol(s): Xi, N

R-phrases: 36/38, 43, 51/53

1,4-bis(2,3-epoxypropoxy)butane

Content (W/W): >= 5 % - <= 35 %

CAS Number: 2425-79-8

EC-Number: 219-371-7

INDEX-Number: 603-072-00-7

Hazard symbol(s): Xn

R-phrases: 52/53, 20/21, 36/38, 43

BISPHENOL-F-EPICHLORHYDRINE

Content (W/W): >= 10 % - <= 35 %

CAS Number: 28064-14-4

Hazard symbol(s): Xi, N

R-phrases: 36/38, 43, 51/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

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On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Suitable extinguishing media:

foam, water spray, dry extinguishing media, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. Handling and Storage

Handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Take precautionary measures against static discharges.

Storage

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

Protect from temperatures below: 5 °C

Protect from temperatures above: 35 °C

8. Exposure Controls/Personal Protection

Personal protective equipment**Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: liquid
Colour: grey
Odour: characteristic

Flash point: > 100 °C

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Explosion hazard: not explosive

Density: 1.1 g/cm³
(20 °C)

Solubility in water: not soluble

10. Stability and Reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Corrosion to metals: No data available.

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

| Virtually nontoxic after a single ingestion.

Experimental/calculated data:

| LD50 rat (oral): > 10,000 mg/kg

Irritation

Assessment of irritating effects:

| Eye contact causes irritation. Skin contact causes irritation.

| *Information on: bisphenol A-epichlorohydrin resin*

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Respiratory/Skin sensitization

Assessment of sensitization:

| Sensitization after skin contact possible.

Experimental/calculated data:

| The European Union (EU) has classified this substance as skin-sensitizing (R43).

| *Information on: bisphenol A-epichlorohydrin resin*

| *Assessment of sensitization:*

Sensitization after skin contact possible.

Other relevant toxicity information

Sensitization through inhalation or skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

| Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish:

| LC50 (96 h) 1.41 mg/l, *Oryzias latipes* (JIS K 0102-71, semistatic)

| The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates:

| EC50 1 - 10 mg/l, daphnia

| Literature data. The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic plants:

| EC50 (96 h) 9.1 mg/l, *Selenastrum capricornutum* (Algal growth inhibition test, static)

| The product has not been tested. The statement has been derived from the properties of the individual components.

Microorganisms/Effect on activated sludge:

| EC50 > 100 mg/l, activated sludge (aquatic)

| Literature data.

| *Information on: bisphenol A-epichlorohydrin resin*

| *Toxicity to fish:*

LC50 (96 h) 1.41 mg/l, Oryzias latipes (JIS K 0102-71, semistatic)

Additional information

Other ecotoxicological advice:

Acutely toxic for aquatic organisms. Do not discharge product into the environment without control.

The product has not been tested. The statement has been derived from the properties of the individual components.

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13. Disposal Considerations

Observe national and local legal requirements.
Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

ADR

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

RID

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Inland waterway transport

ADNR

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Sea transport

IMDG

Hazard class:	9
Packing group:	III
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Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Air transport

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

15. Regulatory Information**Regulations of the European union (Labelling) / National legislation/Regulations**EEC Directives:

Hazard symbol(s)

Xi	Irritant.
N	Dangerous for the environment.

R-phrase(s)

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S24	Avoid contact with skin.
S28	After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
S37/39	Wear suitable gloves and eye/face protection.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

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

Hazard determining component(s) for labelling:	BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700
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Other regulations

as in Annex I of Directive 67/548/EEC

16. Other Information

Due to the merger of Degussa Construction chemicals and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us under the address mentioned in Section I.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xi	Irritant.
N	Dangerous for the environment.
Xn	Harmful.
36/38	Irritating to eyes and skin.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
20/21	Harmful by inhalation and in contact with skin.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.