

Safety Data Sheet

A455 EPX SPECIAL BOLD

Revision date : 2011/03/01

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Version: 1.0

(30367317/SDS_GEN_US/EN)

1. Product and Company Identification

Use: Product for construction chemicals

CompanyBASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA24 Hour Emergency Response InformationCHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Hazards Identification

Emergency overview

WARNING:

COMBUSTIBLE LIQUID AND VAPOR.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

Overexposure may cause CNS depression including headache, dizziness, nausea and loss of consciousness.

CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Keep container tightly closed.

Avoid all sources of ignition: heat, sparks, open flame.

State of matter: liquid

Colour: pigmented

Odour: aromatic, mild

Potential health effects**Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Virtually nontoxic after a single ingestion.

Irritation / corrosion:

Eye contact causes irritation. Skin contact causes irritation.

Sensitization:

Sensitization after skin contact possible.

Chronic toxicity:

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Carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect.

Repeated dose toxicity: Overexposure may cause CNS depression including headache, dizziness, nausea and loss of consciousness.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect.

Signs and symptoms of overexposure:

Eye irritation, skin irritation, allergic contact dermatitis

Potential environmental effects

Aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. 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.

Degradation / environmental fate:

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
25085-99-8	15.0 - 40.0 %	Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer
25068-38-6	15.0 - 40.0 %	bisphenol A-epichlorohydrin resin
1317-65-3	15.0 - 40.0 %	Limestone
14808-60-7	15.0 - 40.0 %	crystalline silica
107-98-2	3.0 - 7.0 %	1-methoxypropan-2-ol
1309-37-1	1.0 - 5.0 %	Iron oxide
64742-89-8	1.0 - 5.0 %	Solvent naphtha (petroleum), light aliph.
13463-67-7	0.1 - 1.0 %	Titanium dioxide
64742-47-8	0.1 - 1.0 %	Distillates (petroleum), hydrotreated light

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.

If on skin:

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.

If in eyes:

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

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If swallowed:

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.

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

5. Fire-Fighting Measures

Flash point:	74 °C	(ASTM D3278, closed cup)
Lower explosion limit:		No data available.
Upper explosion limit:		No data available.

Suitable extinguishing media:

carbon dioxide, dry powder, foam, water spray

Hazards during fire-fighting:

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

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

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. Sources of ignition should be kept well clear. 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.

Cleanup:

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

General advice:

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:

Keep away from heat. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

General advice:

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight.

Storage incompatibility:

General advice: Segregate from metals. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

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8. Exposure Controls and Personal Protection

Components with workplace control parameters

crystalline silica	OSHA	TWA value 2.4 millions of particles per cubic foot of air Respirable ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. TWA value 0.1 mg/m3 Respirable ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. TWA value 0.3 mg/m3 Total dust ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
Iron oxide	ACGIH OSHA	TWA value 0.025 mg/m3 Respirable fraction ; PEL 10 mg/m3 fumes/smoke ;
1-methoxypropan-2-ol	ACGIH	TWA value 5 mg/m3 Respirable fraction ;
Titanium dioxide	ACGIH OSHA	TWA value 100 ppm ; STEL value 150 ppm ; PEL 15 mg/m3 Total dust ;
Distillates (petroleum), hydrotreated light	ACGIH	TWA value 10 mg/m3 ;
	ACGIH	TWA value 200 mg/m3 Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.
Limestone	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;

Personal protective equipment

Respiratory protection:

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Hand protection:

Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

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).

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9. Physical and Chemical Properties

Form:	liquid	
Odour:	aromatic, mild	
Colour:	pigmented	
pH value:		neutral to slightly alkaline
Boiling point:	163 °C	
Density:	1.57 g/cm ³	
Vapour density:		Heavier than air.

10. Stability and Reactivity

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

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

Decomposition products:

Hazardous decomposition products: Traces of the substances/groups of substances are released as decomposition products of the dry substance., carbon oxides, nitrogen oxides, hydrocarbons

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50
Species: rat
Value: > 10,000 mg/kg

Irritation / corrosion

Information on: bisphenol A-epichlorohydrin resin
Assessment of irritating effects:
Eye contact causes irritation. Skin contact causes irritation.

Sensitization

Information on: Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer
Assessment of sensitization:
May cause sensitization by skin contact.

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

Repeated dose toxicity

Information on: 1-methoxypropan-2-ol
Assessment of repeated dose toxicity:
May affect the liver and kidneys as indicated in animal studies.

Information on: Iron oxide
Assessment of repeated dose toxicity:

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*The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.
Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).*

Carcinogenicity

*Information on: Titanium dioxide
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.*

*Information on: crystalline silica
The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known human carcinogen).
NTP listed carcinogen*

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria).

Bioaccumulation

Because of the product's consistency and low water solubility, bioavailability is improbable.

13. Disposal considerations

Waste disposal of substance:

Recommendations: Use excess product in an alternate beneficial application. Dispose of in accordance with national, state and local regulations.
Dispose of in accordance with national, state and local regulations.

Container disposal:

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 USDOT

Classified as combustible liquid in containers greater than 119 gallons.

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Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category:

IARC 1, 2A or 2B carcinogen; NTP listed carcinogen; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established; Combustible Liquid

EPCRA 311/312 (Hazard categories):

Acute; Chronic; Fire

CERCLA RQ

1000 LBS

100 LBS

10 LBS

CAS Number

100-41-4

1330-20-7; 107-98-2

7439-92-1

Chemical name

ethylbenzene

Xylene; 1-methoxypropan-2-ol

lead

State regulations

State RTK

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

CAS Number

14808-60-7

107-98-2

1309-37-1

13463-67-7

64742-47-8

Chemical name

crystalline silica

1-methoxypropan-2-ol

Iron oxide

Titanium dioxide

Distillates (petroleum), hydrotreated light

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. Other Information

HMIS III rating

Health: 2⁺ Flammability: 2 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible

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fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations

msds@basf.com

MSDS Prepared on: 2011/03/01

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