

Safety Data Sheet

ZINCRICH REBAR PRIMER

Revision date : 2011/07/27
Version: 1.0

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(30368674/SDS_GEN_US/EN)

1. Product and Company Identification

Use: Product for construction chemicals

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Hazards Identification

Emergency overview

WARNING:
FLAMMABLE 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 MAY CAUSE CANCER.
Contains a suspect teratogen.
Overexposure may cause liver and kidney damage, and blood disorders.
May cause sensitization by skin contact.
Keep container tightly closed.
Avoid all sources of ignition: heat, sparks, open flame.
Avoid contact with the skin, eyes and clothing.

State of matter: liquid
Colour: grey
Odour: solvent-like

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:

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

Irritation / corrosion:

Irritating to eyes, respiratory system and skin.

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Sensitization:

May cause sensitization by skin contact.

Chronic toxicity:

Carcinogenicity: Contains a suspect carcinogen.

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

Teratogenicity: Contains a suspect teratogen.

Medical conditions aggravated by overexposure:

The use of lead containing products is regulated under the OSHA Lead Standard (see 29 CFR 1910.1025).

Potential environmental effects

Aquatic toxicity:

The product has not been tested.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7440-66-6	40.0 - 70.0 %	zinc
1330-20-7	7.0 - 13.0 %	Xylene
78-93-3	5.0 - 10.0 %	Methylethylketone
25068-38-6	5.0 - 10.0 %	bisphenol A-epichlorohydrin resin
100-41-4	1.0 - 5.0 %	ethylbenzene
14807-96-6	1.0 - 5.0 %	talc
1314-13-2	1.0 - 5.0 %	Zinc oxide
7631-86-9	0.5 - 1.5 %	Silicon dioxide
108-94-1	0.5 - 1.5 %	cyclohexanone
1344-28-1	0.5 - 1.5 %	Aluminum oxide
7439-92-1	0.1 - 1.0 %	lead

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.

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.

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5. Fire-Fighting Measures

Flash point: 4.44 °C
39.99 °F
Lower explosion limit: 1.0 %(V)
Upper explosion limit: 13.7 %(V)

Suitable extinguishing media:
carbon dioxide, dry powder, 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.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

Xylene OSHA PEL 100 ppm 435 mg/m3 ;

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Aluminum oxide	ACGIH OSHA	TWA value 100 ppm ; STEL value 150 ppm ; PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
ethylbenzene	ACGIH OSHA	TWA value 1 mg/m3 Respirable fraction ; PEL 100 ppm 435 mg/m3 ;
Methylethylketone	ACGIH OSHA	TWA value 100 ppm ; STEL value 125 ppm ; PEL 200 ppm 590 mg/m3 ;
Zinc oxide	ACGIH OSHA	TWA value 200 ppm ; STEL value 300 ppm ; PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
Cadmium	ACGIH	TWA value 2 mg/m3 Respirable fraction ; STEL value 10 mg/m3 Respirable fraction ;
	OSHA	TWA value 0.005 mg/m3 ; OSHA Action level 0.0025 mg/m3 ; TWA value 0.1 mg/m3 fumes/smoke ; TWA value 0.2 mg/m3 dust ; CLV 0.6 mg/m3 dust ; CLV 0.3 mg/m3 fumes/smoke ;
lead	ACGIH	TWA value 0.002 mg/m3 Respirable fraction (cadmium (Cd)); TWA value 0.01 mg/m3 (cadmium (Cd));
	OSHA	TWA value 0.05 mg/m3 ; OSHA Action level 0.03 mg/m3 ;
talc	ACGIH	TWA value 0.05 mg/m3 (lead (Pb));
	OSHA	TWA value 20 millions of particles per cubic foot of air ; 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.
Silicon dioxide	ACGIH	TWA value 2 mg/m3 Respirable fraction ; The value is for particulate matter containing no asbestos and <1% crystalline silica.
	OSHA	TWA value 20 millions of particles per cubic foot of air ; TWA value 0.8 mg/m3 ; 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.

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.

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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	
Odour:	solvent-like	
Colour:	grey	
pH value:		neutral to slightly alkaline
Boiling point:	79.44 - 141.11 °C	
Density:	2.04 g/cm ³	(20 °C)
	approx. 16.97	(20 °C)
	lb/USg	
Relative density:	2.04	
Vapour density:		Heavier than air.

10. Stability and Reactivity

Substances to avoid:

strong bases, strong acids, oxidizing agents

Hazardous reactions:

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

Decomposition products:

carbon oxides

Oxidizing properties:

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

11. Toxicological information

Acute toxicity

Information on: Xylene

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation. Of moderate toxicity after short-term skin contact. High concentrations in the air may cause narcosis. Virtually nontoxic after a single ingestion.

Information on: Methyl ethyl ketone

Assessment of acute toxicity:

Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Information on: ethylbenzene

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. Of low toxicity after single ingestion.

Information on: cyclohexanone

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Of moderate toxicity after short-term skin contact.

Information on: lead

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Assessment of acute toxicity:

Exposure can reduce nerve conduction velocity, even at low exposure levels.

Irritation / corrosion

Information on: Methyl ethyl ketone

Assessment of irritating effects:

Irritating to eyes. May cause slight irritation to the skin.

Information on: bisphenol A-epichlorohydrin resin

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Information on: ethylbenzene

Assessment of irritating effects:

May cause slight irritation to the skin. May cause slight irritation to the eyes.

Information on: cyclohexanone

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Sensitization

Information on: bisphenol A-epichlorohydrin resin

Assessment of sensitization:

Sensitization after skin contact possible.

Repeated dose toxicity

Information on: Xylene

Assessment of repeated dose toxicity:

Overexposure may cause liver and kidney toxicity.

The substance may cause damage to the central nervous system after repeated ingestion of high doses.

Information on: Silicon dioxide

Assessment of repeated dose toxicity:

Repeated inhalative uptake of particles/dust reaching the alveoli may cause damage to the lungs.

Information on: lead

Assessment of repeated dose toxicity:

The substance may cause damage to the central nervous system after repeated ingestion of high doses. The substance may cause damage to the central nervous system after repeated inhalation. Prolonged and repeated exposure may cause blood disorders. May cause gastrointestinal system disorders. The substance may cause damage to the kidney after repeated inhalation. The substance may cause damage to the kidney after repeated ingestion. The substance may cause damage to the liver after repeated inhalation. The substance may cause damage to the liver after repeated ingestion.

Carcinogenicity

Information on: ethylbenzene

Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part. A clear indication of an increased risk of cancer in humans has so far not been shown.

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). NTP listed carcinogen

Information on: cyclohexanone

In long-term animal studies in which the substance was given in the drinking water in high doses, a carcinogenic effect was observed. Due to the rat-specific mode of action, no carcinogenic effects are expected in man. Hence, the findings are of low relevance for humans.

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Reproductive toxicity

Information on: lead

*The results of animal studies suggest a fertility impairing effect. EU-classification
May cause reproductive effects. May cause birth defects, mental retardation and behavioral disorders to the fetus.*

Experiences in humans:

According to experience, the product is considered to be harmless to health if used in the correct manner.

Other Information:

*Information on: Methylethylketone
Has a degreasing effect on skin.*

12. Ecological Information

Other adverse effects:

The product has not been tested. Do not allow to enter soil, waterways or waste water channels.

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

Hazard class:	3
Packing group:	II
ID number:	UN 1139
Hazard label:	3
Proper shipping name:	COATING SOLUTION

Sea transport

IMDG

Hazard class:	3
Packing group:	II
ID number:	UN 1139
Hazard label:	3

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Marine pollutant: NO
Proper shipping name: COATING SOLUTION

Air transport

IATA/ICAO

Hazard class: 3
Packing group: II
ID number: UN 1139
Hazard label: 3
Proper shipping name: COATING SOLUTION

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; Flammable Liquid

EPCRA 311/312 (Hazard categories):

Acute; Chronic; Fire

EPCRA 313:

CAS Number

7439-92-1

100-41-4

1344-28-1

7440-66-6

1314-13-2

1330-20-7

Chemical name

lead

ethylbenzene

Aluminum oxide

zinc

Zinc oxide

Xylene

CERCLA RQ

5000 LBS

1000 LBS

100 LBS

10 LBS

CAS Number

78-93-3; 108-94-1

7440-66-6; 100-41-4

1330-20-7; 71-23-8;

107-98-2

7439-92-1;

7440-43-9

Chemical name

Methylethylketone; cyclohexanone

zinc; ethylbenzene

Xylene; 1-Propanol; 1-methoxypropan-2-ol

lead; Cadmium

State regulations

State RTK

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

CAS Number

7440-66-6

78-93-3

100-41-4

14807-96-6

1314-13-2

7631-86-9

108-94-1

1344-28-1

7439-92-1

Chemical name

zinc

Methylethylketone

ethylbenzene

talc

Zinc oxide

Silicon dioxide

cyclohexanone

Aluminum oxide

lead

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.

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16. Other Information

HMIS III rating

Health: 2⁺ Flammability: 3 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 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: 2011/07/27

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