

Material Safety Data Sheet



ZINCRICH REBAR PRIMER

Version 1.6

12/22/2006

1. PRODUCT AND COMPANY INFORMATION

Company : **BASF Building Systems**
889 Valley Park Drive
Shakopee, MN 55379

Telephone : (952) 496-6000

Emergency telephone number : (800) 424-9300
(703) 527-3887 (Outside Continental US)

Product name : ZINCRICH REBAR PRIMER

MSDS ID No. : 10756

TSCA Inventory : All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL : All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

Product Use Description : Coating

2. HAZARDOUS INGREDIENTS

<u>Chemical</u>	<u>CAS No.</u>	<u>TLV</u>	<u>STEL</u>	<u>PEL</u>	<u>CEIL</u>	<u>Weight %</u>
ZINC	7440-66-6		N.E.	N.E.	N.E.	30.00 - 60.00 %
XYLENE	1330-20-7	100 ppm	150 ppm	100 ppm	300 ppm	5.00 - 10.00 %
EPOXY RESIN	25068-38-6	N.E.	N.E.	N.E.	N.E.	5.00 - 10.00 %
METHYL ETHYL KETONE	78-93-3	200 ppm	300 ppm	200 ppm	N.E.	5.00 - 10.00 %
ETHYLBENZENE	100-41-4	100 ppm	125 ppm	100 ppm	N.E.	1.00 - 5.00 %
ZINC OXIDE	1314-13-2	5 mg/m3	10 mg/m3	5 mg/m3	N.E.	1.00 - 5.00 %
INORGANIC LEAD	7439-92-1	0.05 mg/m3	N.E.	N.E.	N.E.	0.10 - 1.00 %

3. HAZARDS IDENTIFICATION

HMIS[®] Rating : HEALTH 2* FLAMMABILITY 3 PHYSICAL HAZARD 0

WHMIS Class : B2
D2B

Primary Routes of Entry : Ingestion
Inhalation
Eye contact
Skin contact

Effects of Overexposure

Inhalation : Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful.

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- Skin** : Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure can cause skin irritation and redness. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.
- Eyes** : Can cause moderate to severe irritation, tearing and blurred vision. Prolonged exposure can result in more severe irritation and possible corneal injury.
- Ingestion** : Intake can cause gastrointestinal irritation, nausea, cramps, vomiting and diarrhea, headache, cyanosis and drowsiness.
- Chronic exposure** : Existing respiratory or skin ailments may be aggravated by exposure. Chronic overexposure to xylene can cause damage to the formed elements of blood [e.g., red cells, which carry oxygen]. This product contains ethylbenzene. The International Agency for Research on Cancer has evaluated ethylbenzene and has classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") can be harmful or fatal. This product contains inorganic lead. Prolonged overexposure to Lead can cause central nervous system damage, gastrointestinal disturbances, anemia, fatigue, sleep disturbances and weight loss. Kidney dysfunction and possible injury has also been associated with lead poisoning. IARC has listed lead as a possible human carcinogen.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
ZINC	N.E.	N.E.	N.E.	N.E.
XYLENE	Not classifiable as a human carcinogen.	Classification not possible from current data.	N.E.	N.E.
EPOXY RESIN	N.E.	N.E.	N.E.	N.E.
METHYL ETHYL KETONE	N.E.	N.E.	N.E.	N.E.
ETHYLBENZENE	Confirmed animal carcinogen with unknown relevance to humans.	Inadequate data.	N.E.	N.E.
ZINC OXIDE	N.E.	N.E.	N.E.	N.E.
INORGANIC LEAD	Confirmed animal carcinogen with unknown relevance to humans.	Limited data.		

4. FIRST AID MEASURES

- Eye contact** : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin contact** : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion** : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
- Inhalation** : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing

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has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point	:	39.99 °F (4.44 °C)
Autoignition temperature	:	no data available
Lower explosion limit	:	1.0 %(V)
Upper explosion limit	:	13.7 %(V)
Suitable extinguishing media	:	water fog carbon dioxide (CO ₂) dry chemical
Fire and Explosion Hazards	:	Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Heating can release vapours which can be ignited. Solid stream of water or foam can cause frothing.
Special Fire-fighting Procedures	:	Can be ignited by heat, sparks or flame. At higher temperature pressure build up in sealed containers. Use water to cool containers exposed to fire. As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Take action to eliminate source of leak. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled Liquid. Contain and collect spillage 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).
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7. HANDLING AND STORAGE

Handling	:	Keep out of reach of children. Use only in area provided with appropriate ventilation. Take precautionary measures against static discharges. Ground and bound containers when transferring material. For personal protection see section 8.
Storage	:	Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields
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		goggles face-shield
Hand protection	:	Wear Chemically resistant gloves.
Body Protection	:	Wear as appropriate: Chemically resistant clothes preventive skin protection
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.
Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	:	Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	:	gray
Physical State	:	liquid
Odor	:	solvent
pH	:	no data available
Odor Threshold	:	No information available.
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	174.99 - 286.00 °F (79.44 - 141.11 °C)
Freeze Point	:	no data available
Water solubility	:	no data available
Specific Gravity	:	2.04
Viscosity	:	no data available
Evaporation rate	:	Faster than Butyl acetate
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	581 g/l

10. STABILITY AND REACTIVITY

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Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Heat, flames and sparks. Direct sources of heat. Strong sunlight for prolonged periods. Prolonged exposure to high temperatures
Materials to avoid	:	strong acids strong bases oxidizing agents
Hazardous decomposition products	:	Oxides of carbon
Hazardous polymerization	:	Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>	<u>Exposure time</u>
<u>Component</u>				
ZINC	LC50	no data available		
XYLENE	LC50	no data available		
EPOXY RESIN	LC50	no data available		
METHYL ETHYL KETONE	LC50	no data available		
ETHYLBENZENE	LC50	no data available		
ZINC OXIDE	LC50	no data available		
INORGANIC LEAD	LC50	no data available		

Acute oral toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
<u>Component</u>			
ZINC	LD50 (Oral)	no data available	
XYLENE	LD50 (Oral)	4,300 mg/kg	rat
EPOXY RESIN	LD50 (Oral)	no data available	
METHYL ETHYL KETONE	LD50 (Oral)	no data available	
ETHYLBENZENE	LD50 (Oral)	no data available	
ZINC OXIDE	LD50 (Oral)	no data available	
INORGANIC LEAD	LD50 (Oral)	no data available	

Acute dermal toxicity

<u>Type</u>	<u>Value</u>	<u>Species</u>
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<u>Product</u>	LD50 (Dermal)	no data available	
<u>Component</u>			
ZINC	LD50 (Dermal)	no data available	
XYLENE	LD50 (Dermal)	> 1,700 mg/kg	rabbit
EPOXY RESIN	LD50 (Dermal)	no data available	
METHYL ETHYL KETONE	LD50 (Dermal)	6,480 mg/kg	rabbit
ETHYLBENZENE	LD50 (Dermal)	no data available	
ZINC OXIDE	LD50 (Dermal)	no data available	
INORGANIC LEAD	LD50 (Dermal)	no data available	

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	: Proper shipping name	COATING SOLUTION
	UN-No	1139
	Class	3
	Packaging group	II
	Primary Label	Flammable liquid
IATA	: Proper shipping name	COATING SOLUTION
	UN-No	1139
	Class	3
	Packaging group	II
	Primary Label	Flammable liquid

15. REGULATORY INFORMATION

SARA 311/312 (RTK)

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD IMMEDIATE (ACUTE) HEALTH HAZARD DELAYED (CHRONIC) HEALTH HAZARD

SARA 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Weight %</u>	<u>CAS No.</u>	<u>Chemical Name</u>
30.00 - 60.00 %	7440-66-6	ZINC

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5.00 - 10.00 %	1330-20-7	XYLENE
5.00 - 10.00 %	78-93-3	METHYL ETHYL KETONE
1.00 - 5.00 %	100-41-4	ETHYLBENZENE
1.00 - 5.00 %	1314-13-2	ZINC OXIDE
0.10 - 1.00 %	7439-92-1	INORGANIC LEAD

CERCLA

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

<u>RQ</u>	<u>CAS No.</u>	<u>Chemical Name</u>
1,000 lbs	7440-66-6	ZINC
100 lbs	1330-20-7	XYLENE
5,000 lbs	78-93-3	METHYL ETHYL KETONE
1,000 lbs	100-41-4	ETHYLBENZENE
10 lbs	7439-92-1	INORGANIC LEAD

TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>CAS No.</u>	<u>Chemical Name</u>
14567-73-8	TREMOLITE (NON-ABESTIFORM)
17068-78-9	ANTHOPHYLLITE

California Proposition 65

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

<u>CAS No.</u>	<u>Chemical Name</u>
100-41-4	ETHYLBENZENE
7440-43-9	CADMIUM
7439-92-1	INORGANIC LEAD
14808-60-7	SILICA, CRYSTALLINE QUARTZ
14567-73-8	TREMOLITE (NON-ABESTIFORM)
17068-78-9	ANTHOPHYLLITE

16. OTHER INFORMATION

Legend	:	N.E. - Not Established TLV - Threshold Limit Value STEL - Short Term Exposure Limit PEL - Permissible Exposure Limit CEIL - Ceiling
Prepared By	:	Environment, Health and Safety Department

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

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The Chemical Company

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End of MSDS.