

M A T E R I A L   S A F E T Y   D A T A   S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : THOROG RIP ANCHORING CEMENT  
 IDENTIFICATION NUMBER: T0601000 DATE PRINTED: 05/01/00  
 PRODUCT USE/CLASS : Cement

SUPPLIER: MANUFACTURER:  
 ChemRex Inc.  
 Commercial Construction  
 Products Division  
 889 Valley Park Drive  
 Shakopee, MN 55379

EMERGENCY TELEPHONE: EMERGENCY TELEPHONE: (800)424-9300  
 24 HOURS A DAY, 7 DAYS A WEEK

PREPARER: Regulatory Affairs, PHONE: 952-496-6000, PREPARE DATE: 05/01/00

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	calcium hydroxide	1305-62-0	5.0 %
02	Silica, quartz	14808-60-7	60.0 %
03	Calcium carbonate	471-34-1	5.0 %
04	Portland cement	65997-15-1	20.0 %
05	Calcium aluminat e	65997-16-2	25.0 %
06	Calcium Sulfate	7778-18-9	5.0 %

ITEM	EXPOSURE LIMITS					SKIN
	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	
01	2 mg/m3	N.E.	5 mg/m3	N.E.	N.E.	NO
02	.1 mg/m3	N.E.	.1 mg/m3	N.E.	N.E.	NO
03	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
04	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
05	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
06	10 mg/m3	N.E.	5 mg/m3	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDOUS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause irritation.

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SECTION 3 - HAZARDS IDENTIFICATION
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EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: This product contains silicon dioxide [quartz] which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged over exposure to free silica may cause silicosis or other delayed and serious lung injury.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

SECTION 4 - FIRST AID MEASURES
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FIRST AID - EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs.

SECTION 5 - FIRE FIGHTING MEASURES
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FLASH POINT: N.A.

LOWER EXPLOSIVE LIMIT: N.A.

UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.A.

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is alkaline and releases considerable heat on contact with small amounts of water. Avoid contact between resulting hot alkaline paste and metallic aluminum. Such contact could generate hydrogen gas.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained

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SECTION 5 - FIRE FIGHTING MEASURES
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breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Vacuum or sweep up material and place in a disposal container. Ventilate area. Wear dust/mist mask or other appropriate protection. Flush spill with excess water to a chemical sewer or soak up with inert absorbent. Do not discharge to lakes, streams, ponds, or sewer.

SECTION 7 - HANDLING AND STORAGE
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HANDLING: Use only in a well ventilated area. Keep out of reach of children. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

STORAGE: Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
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ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations. Wear disposable dust mask.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with a face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

HYGIENIC PRACTICES: Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
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BOILING RANGE	: N.A.	VAPOR DENSITY	: N.A.
ODOR	: None	ODOR THRESHOLD	: N.A.
APPEARANCE	: Dark gray powder	EVAPORATION RATE	: N.A.
SOLUBILITY IN H2O	: Slight (<0.1 %)	SPECIFIC GRAVITY	: 2.7000
FREEZE POINT	: N.D.	pH @ 0.0 %	: N.A.
VAPOR PRESSURE	: N.A.		

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SECTION 14 - TRANSPORTATION INFORMATION
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DOT PROPER SHIPPING NAME: Not Regulated

DOT TECHNICAL NAME: N.A.

DOT HAZARD CLASS: N.A.

HAZARD SUBCLASS: N.A.

DOT UN/NA NUMBER: N.A.                    PACKING GROUP: N.A.                    RESP. GUIDE PAGE:

DOT PLACARD AT: N.A.

DOT CLASS NUMBER: N.A.

UN PROPER SHIPPING NAME: Not Regulated

UN HAZARD CLASS: N.A.

UN CLASS NUMBER: AIR    N.A.                    MARINE    N.A.

HAZARD SUBCLASS: AIR    N.A.                    MARINE    N.A.

UN UN/NA NUMBER: N.A.                    UN PACKING GROUP: AIR N.A.    MARINE    N.A.

UN PLACARD AT: N.A.

SECTION 15 - REGULATORY INFORMATION
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U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

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

IMMEDIATE HEALTH HAZARD                    CHRONIC HEALTH HAZARD

SARA SECTION 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:

----- CHEMICAL NAME -----                    CAS NUMBER                    WT/WT % IS LESS THAN  
No SARA Section 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

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SECTION 15 - REGULATORY INFORMATION
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## TOXIC SUBSTANCES CONTROL ACT:

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

----- CHEMICAL NAME -----	CAS NUMBER
None known.	

## U.S. STATE REGULATIONS: AS FOLLOWS -

## CALIFORNIA PROPOSITION 65:

WARNING: 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:

----- CHEMICAL NAME -----	CAS NUMBER
Silica, quartz	14808-60-7
Lithium carbonate	554-13-2
inorganic lead	7439-92-1
nickel	7440-02-0
Arsenic	7440-38-2

## INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION
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HMIS RATINGS - HEALTH: 2      FLAMMABILITY: 0      REACTIVITY: 1  
PERSONAL PROTECTION: E

PREVIOUS MSDS REVISION DATE: 07/27/99

REASON FOR REVISION: New format.

VOLATILE ORGANIC COMPOUNDS (VOCS): 0.00 lbs/gal,    0 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,  
N.D. - Not Determined

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<END OF MSDS>