MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : SONOGROUT 10K

IDENTIFICATION NUMBER: 54-168 DATE PRINTED: 10/21/98

PRODUCT USE/CLASS : Cement

SUPPLIER: MANUFACTURER:

CHEMREX, INC

889 VALLEY PARK DRIVE SHAKOPEE, MN 55379

EMERGENCY TELEPHONE: EMERGENCY TELEPHONE:800-424-9300

24 HRS A DAY 7 DAYS A WEEK

PREPARER: Scott Shinn, PHONE: 612-496-6000, PREPARE DATE: 08/25/98

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM		CHEMICAL	NAME	CAS NU	MBER	WT/WT % LESS THAN
01	Silica, quartz			14808-60-7		70.0 %
02	Portland o	cement		65997-15-1		35.0 %
			EXPOSURE LIMIT	'S		
	ACGIH		OSHA		COMPANY	
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	.1~mg/m3	N.E.	.1~mg/m3	N.E.	N.E.	NO
02	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
(See	Section 16	for abbrevia	ation legend)			
-		SECTION 3	- HAZARDOUS ID	ENTIFICATION		

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Irritating, but will not permanently injure eye tissue.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

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

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: This product contains silicon dioxide [quartz] which has been listed as a suspected human carcinogen by NTP and IARC.

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

SECTION 4 - FIRST AID MEASURES

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) throughly with soap and water. If irritation persist, 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 victum's head below hips to avoid aspiration of vomitus into lungs.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: N.A.

LOWER EXPLOSIVE LIMIT: N.A.

UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: DRY CHEMICAL CO2 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 breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Vaccum or sweep up material and place in a disposal container. Ventilate area. Wear

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

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 contaminents below the exposure limit.

STORAGE: Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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 sheild, 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

BOILING RANGE : N.A. VAPOR DENSITY : Is heavier than air

BOILING RANGE : N.A. VAPOR DENSITY : Is heavier than air ODOR : No odor ODOR THRESHOLD : N.D.A. APPEARANCE : Powder EVAPORATION RATE: Is slower than Butyl

SOLUBILITY IN H20 : Slight <0.1%

FREEZE POINT : N.D.A. SPECIFIC GRAVITY: 2.6000 VAPOR PRESSURE : N/A pH @ 0.0 % : N/A PHYSICAL STATE : Powder VISCOSITY : N/A

COEFFICIENT OF WATER/OIL DISTRIBUTION: N/A

(See Section 16 for abbreviation legend)

Acetate

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid small amounts of water.

INCOMPATIBILITY: Avoid contact with oxidizing material. Contact with strong acids and bases. This product is alkaline and releases considerable heat on contact with water.

HAZARDOUS DECOMPOSITION PRODUCTS: No Information.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT DERMAL LD50: No Information PRODUCT ORAL LD50: No Information

PRODUCT LC50: No Information

COMPONENT TOXICOLOGICAL INFORMATION:

---- CHEMICAL NAME ---- -- DERMAL LD50 -- --- ORAL LD50 --- ---- LC50 -----

Silica, quartz No Information No Information No Information Portland cement No Information No Information No Information No Information No Information

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.

SECTION 14 - TRANSPORTATION INFORMATION

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

SECTION 14 - TRANSPORTATION INFORMATION

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

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:

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 No information is available.

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

SECTION 15 - REGULATORY INFORMATION

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

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

PERSONAL PROTECTION: E

PREVIOUS MSDS REVISION DATE: 08/24/98

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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