

Material Safety Data Sheet

Date last revised: April, 2001

I. GENERAL INFORMATION		
Chemical Name & Synonyms MANGANESE DIOXIDE PASTE	Trade Name & Synonyms SYNTHACALK GC-2+ ACTIVATOR (PART A)	
Chemical Family MIXTURE	Formula MIXTURE	
Proper DOT Shipping CAULKING COMPOUND	DOT Hazard Classification N/A	
Manufacturer PECORA CORPORATION	Manufacturer's Phone Number 215-723-6051	
Manufacturer's Address 165 Wambold Road, Harleysville, PA 19438	Chemtrec Phone Number 800-424-9300	
II. INGREDIENTS		
Principal Hazardous Components	Percent	Threshold Limit Value (Units)
MANGANESE OXIDE (CAS # 1313-13-9)	40-50	(ACGIH-TLV) 0.2mg/m ³ DUSTS AND COMPOUNDS, AS Mn.
THIRAM (CAS # 137-26-8)	1-5	(ACGIH-TLV) 1 mg/m ³ (OSHA-PEL) 5 mg/m ³
SODIUM HYDROXIDE (CAS # 1310-73-2)	1-5	(ACGIH-TLV) 2 mg/m ³ (OSHA-PEL) 2 mg/m ³
NON-HAZARDOUS AND OTHER INGREDIENTS ARE PROPRIETARY AND BELOW REPORTABLE LEVELS.	BALANCE	
III. PHYSICAL DATA		
Boiling Point (°F) 300 °F (148.8°C.)	Specific Gravity (H ₂ O = 1) 1.78	
Vapor Pressure (mm Hg.) 0.1	Percent Volatile by Volume (%) % NON-VOL (W/W) 100	
Vapor Density (Air = 1) > 1	Evaporation Rate (* _____ = 1) * =n-Butyl Alcohol < 1	
Solubility in Water INSOLUBLE	pH NA	
Appearance & Odor THIN, BLACK PASTE – MILD, SWEET ODOR		
IV. FIRE & EXPLOSION HAZARD DATA		
Flash Point (Test Method) NA	Auto Ignition Temperature NOT DETERMINED	
Flammable Limits	LEL NOT DETERMINED UEL NOT DETERMINED	
EXTINGUISHING MEDIA SMALL FIRES: DRY CHEMICALS, CARBON DIOXIDE, WATER SPRAY OR FOAM. LARGE FIRES: WATER SPRAY, FOG OR ALCOHOL FOAM.		
Special Fire Fighting Procedures: FIRE FIGHTERS / OTHERS EXPOSED TO PRODUCTS OF COMBUSTION SHOULD BE WITH NIOSH- APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARTUS (SCBA) AND FULL PROTECTIVE CLOTHING.		
Unusual Fire & Explosion Hazards: HIGH TEMPERATURES CAN CAUSE SEALED CONTAINERS TO RUPTURE DUE TO BUILD UP OF INTERNAL PRESSURE. COOL WITH WATER. TOXIC/IRRITATING FUMES (CARBON DIOXIDE, CARBON MONOXIDE, METALLIC OXIDES, ETC.)		

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V. Health Hazard Data

OSHA Permissible Exposure Limit SEE SECTION II		ACGIH Threshold Limit Value SEE SECTION II	
Carcinogen – NTP NO	ACGIH NO	Carcinogen – IARC Program NO	OSHA NO
Symptoms of Exposure: SEE BELOW: HAZARD RATING: (HMIS) HEALTH – 1* * = CHRONIC (NFPA) HEALTH – 1			
		FLAMMABILITY = 1	REACTIVITY = 1
		FLAMMABILITY = 1	REACTIVITY = 1
Medical Conditions Aggravated By Exposure: EMERGENCY OVERVIEW: PHYSICIANS: TREATMENT SHOULD BE DIRECTED AT PREVENTING ABSORPTION, ADMINISTERING TO SYMPTOMS, AND PROVIDING SUPPORTIVE THERAPY.			
Primary Route (s) of Entry: EYES, SKIN, NOSE, AND MOUTH			
Emergency First Aid: EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN CONTACT: FLUSH WITH WATER, REMOVE CONTAMINATED CLOTHING. INHALATION: IF OVER EXPOSED, GET MEDICAL ATTENTION. INGESTION: INDUCE VOMITING, GET MEDICAL ATTENTION.			

VI. REACTIVITY DATA

Stability Incompatibility		Unstable	
	X	Stable	CONDITIONS TO AVOID: HIGH TEMPERATURES
		Material To Avoid: ACID CAN GENERATE HYDROGEN SULFIDE	
Hazardous Polymerization		May Occur	
	X	Will Not Occur	CONDITIONS TO AVOID: HIGH TEMPERATURES
Hazardous Decomposition Products: INCOMPATIBILITY WITH OTHER MATERIALS: OXIDIZERS, ACIDS. AMPHOTERIC METALS: (i.e.: COPPER, ALUMINUM, ZINC). CONTACT WITH ACID CAN GENERATE HYDROGEN SULFIDE.			

VII. ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: SAFELY STOP MATERIAL FROM ENTERING SOIL, SEWERS, OR BODIES OF WATER. COVER SPILLS WITH ABSORBENT CLAY OR SAWDUST AND PLACE IN CLOSED CHEMICAL WATER CONTAINER. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. EMPTY CONTAINERS CAN BE HAZARDOUS AS THEY MAY RETAIN PRODUCT RESIDUE.

VIII. SPECIAL PROTECTION INFORMATION

Eye Protection SAFETY GLASSES OR GOGGLES	Skin Protection IMPERMEABLE GLOVES, PROTECTIVE CLOTHING
Respiratory Protection (Specific Type) NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IN CONFINED AREAS	Ventilation Recommended LOCAL OR MECHANICAL EXHAUST
Other Protection:	

IX. SPECIAL PRECAUTIONS

Hygienic Practices In Handling & Storage: HYGIENE: WASH THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING, DRINKING, SMOKING, OR USING RESTROOM FACILITIES. STORAGE: STORE IN COOL, DRY, WELL VENTILATED AREA.

Precautions: Toxicity Information: THIRAM: POSITIVE RESULTS WERE OBTAINED IN THE AMES TEST. CAN CAUSE LIVER AND KIDNEY INJURY. STUDIES WITH LABORATORY ANIMALS HAVE INDICATED THIS CHEMICAL MAY EFFECT THE REPRODUCTIVE SYSTEM. MAY EFFECT BLOOD CELLS, HEMATOPOIESIS, AND/OR BONE MARROW. Sodium Hydroxide: CORROSIVE. CAUSES EYE AND SKIN BURNS.

Other Precautions: THIS MATERIAL CONTAINS INGREDIENTS WHICH IS (ARE) CLASSIFIED AS BEING HAZARDOUS BY INHALATION. BECAUSE OF THE PRODUCT'S PHYSICAL MAKE UP, THE RELEASE AND GENERATION OF HAZARDOUS DUST LEVELS WILL NOT OCCUR. MANGANESE OXIDE IS AN EYE, SKIN, AND RESPIRATORY TRACT IRRITANT. CAN CAUSE LIVER AND KIDNEY INJURY.
ALSO SEE PRECAUTIONS ON MSDS FOR GC-2+ BASE (PART B)

KEEP OUT OF REACH OF CHILDREN!!!!!!!!

