

C-281

MSDS

MATERIAL SAFETY DATA SHEET

PAGE 1
N/A = NOT APPLICABLE
N/E = NOT ESTABLISHED

SECTION 1: GENERAL INFORMATION

ATLAS MINERALS & CHEMICALS, INC.
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PHONE: (610) 682-7171
24 HOUR EMERGENCY PHONE (CHEMTREC): 1-800-424-9300

DATE OF DATA SHEET: 3/24/05
PRODUCT NUMBER: 0320303

TRADE NAME: VITROBOND
CHEMICAL FAMILY: SULFUR CEMENT

SECTION 1A: REGULATORY AFFAIRS INFORMATION

1. THE INGREDIENTS IN THIS PRODUCT ARE LISTED IN THE TSCA INVENTORY AS REQUIRED BY LAW.
2. INGREDIENTS PRESENT AT A LEVEL THAT MAY BE SUBJECT TO REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313.
INGREDIENTS - NONE
3. INGREDIENTS PRESENT AT A LEVEL WHICH COULD REQUIRE REPORTING OF RELEASE UNDER CERCLA.
INGREDIENTS CAS NUMBER
HYDROGEN SULFIDE 7783-06-4
4. INGREDIENTS PRESENT AT A LEVEL THAT IS SUBJECT TO EMERGENCY PLANNING REQUIREMENTS OF THRESHOLD PLANNING QUANTITIES (TPQ'S) AND RELEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40CFR355 (USED FOR SARA TITLE III SECTIONS 302, 304, 311 AND 312).
INGREDIENTS CAS NUMBER
HYDROGEN SULFIDE 7783-06-4
5. INGREDIENTS LISTED IN CALIFORNIA PROPOSITION 65 AS CAUSING CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
INGREDIENTS - NONE
6. INGREDIENTS LISTED IN PENNSYLVANIA ON THE HAZARDOUS SUBSTANCE LIST.
INGREDIENTS CAS NUMBER
SILICA 14808-60-7
SULFUR 7704-34-9
HYDROGEN SULFIDE 7783-06-4

SECTION 2: INGREDIENTS

INGREDIENTS:
SULFUR

CAS #: 7704-34-9 %: 50-60 TWA: N/E STEL: N/E
SILICA
CAS #: 14808-60-7 %: 35-45 TWA: 0.1 MG/M3 STEL:
HYDROGEN SULFIDE *
CAS #: 7783-06-4 %: TRACE TWA: 10 PPM STEL: 15 PPM
* AT 285 DEG F (FOR NORMAL USE), FUMES MAY CONTAIN TRACE AMOUNTS OF
HYDROGEN SULFIDE GAS EVOLVED FROM SULFUR COMPONENT

SARA TITLE III HAZARD CATEGORIES

HEALTH: ACUTE (IMMEDIATE) - YES FIRE - NO
HEALTH: CHRONIC (DELAYED) - YES REACTIVE - NO
SUDDEN RELEASE OF PRESSURE - NO

CARCINOGENICITY

SILICA (14808-60-7) LISTED BY IARC AND NTP, NOT OSHA

SECTION 3: PHYSICAL DATA

BOILING POINT: > 800 DEG F
VAPOR PRESSURE: LOW
VAPOR DENSITY: N/A
SPECIFIC GRAVITY: 2.15 TO 2.30
PERCENT VOLATILE: 0
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND ODOR: GRAY OR COLORED SOLID; SLIGHT SULFUR ODOR

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 330 DEG F (C.O.C.)
EXTINGUISHING MEDIA: CO2, SAND, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-
CONTAINED BREATHING APPARATUS BECAUSE SULFUR DIOXIDE AND PHOSPHOROUS
PENTOXIDE EVOLVE WHEN MATERIAL BURNS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: DO NOT USE WATER TO FIGHT FIRE;
HYDROGEN SULFIDE GAS MAY BE GENERATED.

SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION

EFFECT OF OVEREXPOSURE:

EYES: CONTACT WITH HOT MATERIAL CAUSES THERMAL BURNS. FUMES FROM HOT
MATERIAL MAY CAUSE IRRITATION.

SKIN: CONTACT WITH HOT MATERIAL CAUSES THERMAL BURNS. PROLONGED OR
REPEATED CONTACT WITH COOL MATERIAL MAY CAUSE IRRITATION.

INHALATION: FUMES FROM HOT MATERIAL MAY CAUSE IRRITATION TO THE MUCOUS
MEMBRANES.

CHRONIC EFFECTS OF OVEREXPOSURE: HYDROGEN SULFIDE (H2S), AN IRRITANT
GAS AT 5 PPM AND ABOVE, IS RELEASED BY HOT MATERIAL IN VARYING
AMOUNTS. H2S CAN CAUSE SYSTEMATIC TOXICITY AND RAPID DEATH DUE
TO RESPIRATORY PARALYSIS FROM EXPOSURES EXCEEDING 500 PPM.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: ANEMIA, IMPAIRED PULMONARY
FUNCTION, RED BLOOD CELL ABNORMALITIES (ALL FROM H2S EXPOSURE)

FIRST AID:

EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: WASH AREA CONTACTED BY COLD MATERIAL WITH SOAP AND WATER. IF CONTACT IS WITH HOT MATERIAL, SUBMERGE AREA IN COLD WATER OR ICE. DO NOT ATTEMPT TO REMOVE COOLED MATERIAL. KEEP CONTACT AREA COVERED WITH COLD WATER OR ICE PACKS. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: IF OVERCOME, REMOVE VICTIM TO FRESH AIR. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

SECTION 6: REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: HIGH TEMPERATURES, EXPOSURE TO AIR

INCOMPATIBILITY: STRONG OXIDIZERS AND ALKALIS

HAZARDOUS DECOMPOSITION PRODUCTS: H₂S, SULFUR OXIDES WHICH MAY COMBINE WITH MOISTURE TO FORM ACIDS

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 7: SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: DUSTS MAY BE SWEEPED OR VACUUMED FROM AREA. MOLTEN MATERIAL SHOULD BE COOLED PRIOR TO REMOVAL. COLLECT FOR PROPER DISPOSAL.

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: FOR COOL MATERIAL, DUST MASKS IF TLV IS EXCEEDED OR USED IN CONFINED AREA. FOR HOT MATERIAL, CANISTER MASK TO REMOVE SULFUR AND H₂S VAPORS.

VENTILATION:

LOCAL: ADEQUATE TO KEEP EXPOSURE BELOW TLV

MECHANICAL: ACCEPTABLE

PROTECTIVE GLOVES: HEAT-RESISTANT GLOVES FOR HOT MATERIAL

EYE PROTECTION: SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: IMPERVIOUS CLOTHING, SAFETY SHOES

SECTION 9: SPECIAL PRECAUTIONS

STORE IN A COOL DRY PLACE. AVOID BREATHING VAPORS. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.