

PRODUCT NAME: RED OXIDE HARDENER

HMIS CODES: H F R P

PRODUCT CODE: 18-6-B

3 1 0 J

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Pruett-Schaffer Chemical Co.
ADDRESS: 3327 Stafford Street Pittsburgh PA 15204
EMERGENCY PHONE: 1-800-633-8253 INFORMATION PHONE: 1-412-771-2000
REVISION DATE: 02/15/07 NAME OF PREPARER: Robert P. Barry

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

Table with columns: WEIGHT REPORTABLE COMPONENTS PERCENT, CAS NUMBER, VAPOR PRESSURE mm Hg @ TEMP Deg F. Rows include Alkyl Amine, Amorphous Fumed Silica, Red Iron Oxide Pigment, and Yellow Iron Oxide.

No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

LEGEND: (C)=Ceiling limit; (S)=Skinlimit; (STEL)=Short Term Exposure Limit; (Mppcf)=Million Particles Per Cubic Foot; (TWA)=8 HR Time Weighted Average.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: n/a SPECIFIC GRAVITY: 1.08
VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether.
COATING VOC: 0.00 lb/gl MATERIAL VOC: 0.00 lb/gl
ORGANIC SOLVENT, PERCENT BY WEIGHT: 0.000
ORGANIC SOLVENT, PERCENT BY VOLUME: 0.000
COATING DENSITY, LB/GAL: 9.026
SOLUBILITY IN WATER: Completely.
APPEARANCE AND ODOR: Viscous, opaque liquid with a slight amine odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: n/a METHOD USED: n/a
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a UPPER: n/a

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water fog.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective clothing. Keep onlookers away. Dike runoff to prevent entry into sewers, storm drains, and watercourses. Use caution after fire is

extinguished, vapors or liquid may reignite. Notify appropriate state and local agencies. Wear self-contained breathing apparatus and full protective clothing (helmet with face shield, bunker coats, gloves and rubber boots). Keep onlookers away. Dike runoff to prevent entry into sewers, storm drains, and watercourses. Use caution after fire is extinguished, vapors or liquid may reignite. Notify appropriate state and local agencies.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Pressure may build up in tightly closed containers exposed to fire which may result in rupture. Keep containers cooled with water spray. Decomposition and combustion products may be toxic.

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===== SECTION V - REACTIVITY DATA =====

STABILITY: Stable

CONDITIONS TO AVOID: Avoid storage at high temperatures. Sources of ignition, poor ventilation, corrosive atmospheres or liquids which may damage containers. Excessive heat, flames and sparks, freezing temperatures, corrosive atmospheres or liquids which may damage containers.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids, oxidizers and reactive organo-metallic compounds. May react vigorously with strong oxidizing agents, strong Lewis or mineral acid, and strong mineral and organic bases. Reacts with considerable heat release with some curing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon dioxide, carbon monoxide, and other toxic gases. None known.

HAZARDOUS POLYMERIZATION: Will not occur. Stable under normal use conditions.

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: This material is a potential respiratory sensitizer. Effects vary among individuals and may include headache, dizziness, nausea, irritation of the nose, throat, and respiratory tract, and incoordination. Severe overexposure may produce anesthesia or unconsciousness. Because of its low volatility, This product is not likely to be an inhalation hazard.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause eczema or allergic skin reaction. Long term contact has the potential for causing chemical burns, necrosis, and scar tissue formation. Eye contact may cause irritation, redness, and tearing, and blurred vision. Skin contact may cause irritation and redness. Long term skin exposure may dry and defat the skin, causing cracking, and in severe cases, dermatitis. Severly irritating to the eyes causing pain, redness, swelling and blurred vision. Severly irritating to the skin. Repeated skin contact may result in an allergic skin reaction causing itching, burning, redness and swelling.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Ingestion can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC): Repeated or prolonged contact with skin may cause eczema, dermatitis, sensitization, or allergic skin reactions. No specific hazards under normal use conditions. CORROSIVE! May cause chemical

burns to eyes and skin.

CARCINOGENICITY: NTP: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May aggravate pre-existing skin conditions such as eczema, dermatitis, or cause allergic response. Allergic skin conditions, eczema, dermatitis.

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EMERGENCY AND FIRST AID PROCEDURES: INHALATION OVEREXPOSURE: Remove person to fresh air, If breathing stops, apply artificial respiration and seek immediate medical attention. NOTE: Use supplied-air respirator for rescue in enclosed areas. EYE CONTACT: Flush with large amounts of tepid water for at least 15 minutes, get medical attention. INGESTION: Do not induce vomiting, if aspirated material can cause chemical pneumonitis or pulmonary edema. Drink 2 glasses of milk or water to dilute and contact physician or poison center. SKIN: Wash with soap and water, avoid repeated contact. INHALATION OVEREXPOSURE: remove to fresh air. If rapid recovery does not occur, obtain medical attention. SKIN CONTACT: DO NOT DELAY. Rinse immediately with plenty of water for at least 10 minutes and seek medical advice. INGESTION: Do not induce vomititing. Give water to drink, providint patient is conscious. If rapid recovery does not occur, obtain medical attention.

Notes To Physician

Symptoms: Dryness of the skin Irritating to eyes, respiratory system and skin. TREATMENT: Treat symtomatically. If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed. Pre-existing skin or respiratoru disorders may be aggravated by exposure to this product.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike to prevent entry into sewers or surface waters. Recover free liquid by shoveling into container, or add absorbent such as sand or earth to spill and sweep up. Provide ventilation, wear a respirator. Notify proper authorities if spill contaminates land or waterways.

WASTE DISPOSAL METHOD: Dispose of in chemical landfill or incinerate assuring conformity to all applicable local, state, and federal governing regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not expose to direct sun or freezing temperatures, store inside away from extreme temperature variations.

Protect containers from physical damage. Keep containers tightly closed when not in use. Do not inhale vapors or mists, use with adequate ventilation and wear a respirator. Do not store with food or animal feed. Do not expose to direct sun or freezing temperatures, store inside away from extreme temperature variations. Protect containers from physical damage. Keep containers tightly closed when not in use. Use with adequate ventilation and wear a respirator. Do not store with food or animal feed.

OTHER PRECAUTIONS: Do not cut, weld, grind, drill, solder, or braze on or near containers whether full or empty. Do not reuse containers without professional reconditioning and testing. Do not remove warning labels from containers.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION: Using this product in poorly ventilated areas may require the use of a respirator. Use Mine Safety Appliance respirator #448849 with organic vapor cartridge and mist filter (or equivalent) if air monitoring demonstrates that the concentration of listed hazardous materials exceeds the recommended TLV's. In enclosed areas where ventilation is not used, wear a Mine Safety Appliance #475217 pressure/demand air-supplied respirator or equivalent. NIOSH approved organic vapor respirator if recommended PEL or TLV is exceeded. If concentrations are below TLV and/or PEL, a NIOSH approved disposable dust/mist respirator may be used for personal comfort.

VENTILATION: Use good general mechanical ventilation and local exhaust adequate to reduce the concentration of vapors or mists of the listed hazardous materials to below the Threshold Limit Value(s). Use good general mechanical ventilation and local exhaust adequate to reduce the concentration of vapors or mists of the listed hazardous materials to below the Threshold Limit Value(s) and the Lower MATERIAL SAFETY DATA SHEET

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Explosion Limit. Ventilation equipment must be explosion proof.

PROTECTIVE GLOVES: Use of gloves is recommended, use chemically resistant type. Use of gloves is recommended, PVC gloves.

EYE PROTECTION: Use is recommended, use splash goggles or full face shields as necessary. Use is recommended, monogoggles.

OTHER PROTECTIVE CLOTHING: Use impervious apron or coveralls to prevent contaminating street clothes which may result in prolonged exposure. The use of head caps or helmets is recommended. Use impervious apron or coveralls to prevent contaminating street clothes which may result in prolonged exposure.

WORK AND HYGIENIC PRACTICES: Eye washes and safety showers in the workplace are recommended. Practice good industrial hygiene when using this product: After using this product, do not smoke or eat until washing thoroughly. Remove saturated clothing or shoes at once and launder before reuse.

===== SECTION IX - MISCELLANEOUS =====

ADDITIONAL HAZARDOUS MATERIAL INFORMATION:

This product contains no lead, lead chromate, zinc chromate, or asbestos. This product is slightly toxic to aquatic organisms. It is expected to be biodegradable.

SHIPPING INFORMATION:

UN/NA ID No.: 3066

DOT HAZARD CLASS: 8

PACKING GROUP: II

DOT HAZARDOUS MATERIAL PROPER SHIPPING NAME: POLYALKYL AMINE

Further information: Not regulated by D.O.T, if in a container of 119 gal on or less. For D.O.T. exceptions that apply to this material, see 49 CFR 172.203(L) (3) and 171.4(c).

DISCLAIMER:

The information and recommendations contained herein were believed to be accurate at the time of preparation or obtained from sources believed to be generally reliable. Direct testing of this product under all conceivable conditions of use has not been done. Information given herein is given in good faith, however Pruett-Schaffer Chemical Corporation makes no warranty concerning its accuracy and will not be held liable for claims relating to any party's use of or reliance on this information.