

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: HARDENER COMPONENT FOR 22-12-A

HMIS CODES: H F R P  
2 0 0 J

PRODUCT CODE: 22-12-B

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SECTION I - MANUFACTURER IDENTIFICATION  
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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: 03/07/05 NAME OF PREPARER: Robert P. Barry

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SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION  
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REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP Deg F	WEIGHT PERCENT
Water	7732-18-5		53.10
Modified Epoxy Amine Adduct	N/A		46.26
OSHA not established, ACGIH not established			
* SODIUM NITRITE	7632-010-0	0 4	0.20
NOT ESTABLISHED			
108-01-0			0.01

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

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

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS  
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BOILING RANGE: n/a SPECIFIC GRAVITY: 1.07  
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: 0.010  
ORGANIC SOLVENT, PERCENT BY VOLUME: 0.013  
COATING DENSITY, LB/GAL: 8.965  
SOLUBILITY IN WATER: Insoluble.  
APPEARANCE AND ODOR: Viscous, opaque liquid with a slight amine odor.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
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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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

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SECTION V - REACTIVITY DATA  
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STABILITY: Stable

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

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids, oxidizers and reactive organo-metallic compounds.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon dioxide, carbon monoxide, and other toxic gases.

HAZARDOUS POLYMERIZATION: Will not occur.

===== 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.

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.

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. 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. Overexposure to solvent fumes may aggravate anesthesia, respiratory tract disease or pre-existing lung disorders, nausea, and vomiting.

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.

===== 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.

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.

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) and the Lower Explosion Limit. Ventilation equipment must be explosion proof.

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

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

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.

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:

SHIPPING INFORMATION:

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.