

MATERIAL SAFETY DATA SHEET

General Information

Company's Name: The Chemistry Store.com Inc.
Company's Address: 1133 Walter Price St Cayce, SC 29033
Company's Emerg Ph #: 1-800-535-5053 (Infotrak)
Company's Info Ph #: 1-800-224-1430
Date MSDS Prepared: 2/1/07

PRODUCT NAME: Potassium Permanganate

Ingredients/Identity Information

Ingredient: POTASSIUM PERMANGANATE Percent: >97 NIOSH (RTECS) Number: SD6475000 CAS Number: 7722-64-7 OSHA PEL: 5 MG MN/M3; CEILING ACGIH TLV: 5 MG MN/M3; 9192

Physical/Chemical Characteristics

Appearance And Odor: DARK PURPLE SOLID WITH A METALIC LUSTER, ODORLESS. Boiling Point: NOT GIVEN Melting Point: NOT GIVEN Vapor Pressure (MM Hg/70 F): NOT GIVEN Vapor Density (Air=1): NOT GIVEN Specific Gravity: 2.7 Decomposition Temperature: 302F, 150C
Evaporation Rate And Ref: NOT GIVEN Solubility In Water: 6% @ 69F; 20% @ 149F Percent Volatiles By Volume: NONE

Fire and Explosion Hazard Data

Flash Point: Flash Point: NONE Lower Explosive Limit: NONE Upper Explosive Limit: NONE Extinguishing Media: USE LARGE QUANTITIES OF WATER. Special Fire Fighting Proc: WATCH FOR RAPID BURNING AND BE PREPARED TO RETREAT TO A SAFE DISTANCE. IF YELLOW, WHITE OR BROWN FUMES ARE PRESENT, WEAR APPROVED SCBA AND PROTECTIVE CLOTHING. Unusual Fire And Expl Hazrds: POWERFUL OXIDIZING MATERIAL. MAY DECOMPOSE SPONTANEOUSLY IF EXPOSED TO INTENSE HEAT (302F). MAY BE EXPLOSIVE IN CONTACT WITH SOME OTHER CHEMICALS.

Reactivity Data

Stability: YES Cond To Avoid (Stability): AVOID CONTACT WITH INCOMPATIBLE MATERIALS OR HEAT >302F (150C). DO NOT MIX WITH FORMALDEHYDE. Materials To Avoid: CONTACT WITH ACIDS, PEROXIDES, ALL COMBUSTABLE ORGANIC MATERIALS, ALL READILY OXIDIZABLE MATERIALS AND METAL POWDERS. Hazardous Decomp Products: CORROSIVE FUMES OR SMOKE MAY BE FORMED. CONTACT WITH HYDROCHLORIC ACID WILL LIBERATE CHLORINE GAS. Hazardous Poly Occur: NO Conditions To Avoid (Poly): MATERIAL IS NOT KNOWN TO POLYMERIZE

Health Hazard Data

LD50-LC50 Mixture: ORAL RAT LD50: 780MG/KG MALE; 525 FEMALE. Route Of Entry - Inhalation: YES Route Of Entry - Skin: YES Route Of Entry - Ingestion: YES Health Haz Acute And Chronic: EYES: PRODUCT IS CORROSIVE TO EYE TISSUE AND MAY CAUSE SEVERE BURNS WITH DAMAGE. INHALATION: AS AIRBORNE DUST OR MIST MAY IRRITATE AND DAMAGE THE RESPIRATORY TRACT. SKIN: SOLUTIONS AND CRYSTALS MAY BE CORROSIVE TO THE SKIN. INGESTION: MAY CAUSE SEVERE BURNS TO MUCUS MEMBRANES OF THE MOUTH, THROAT, ESOPHAGUS AND STOMACH. Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO Explanation Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS. Signs/Symptoms Of Overexp: EYE, SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED EXPOSURE, MANY YEARS, TO HEAVY CONCENTRATIONS OF DUST AND FUMES ABOVE THE TLV'S, MAINLY AS MANGANESE OXIDES, MAY CAUSE LUNG IRRITATION AND CENTRAL NERVOUS SYSTEM DISORDER. THE SYMPTOMS MAY SIMULATE PARKINSON'S DISEASE. NO KNOWN CASES FOR POTASSIUM PERMANGANATE. Med Cond Aggravated By Exp: PRODUCT WILL CAUSE FURTHER IRRITATION OF TISSUE OR OPEN WOUNDS, BURNS AND MUCUS MEMBRANES. Emergency/First Aid Proc: EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF IRRITATION IS SEVERE. INHALATION: REMOVE TO FRESH AIR. GIVE CPR IF NOT BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT. GET MEDICAL ATTENTION. INGESTION: IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SWEEP UP SPILLS AND PLACE IN CLEAN METAL DRUM. FLUSH FLOOR WITH LARGE AMOUNT OF WATER TO SEWER IF PERMITTED. IF NOT, TREAT WATER AS THE SOLID. Neutralizing Agent: REDUCER: SODIUM THIOSULFATE, A BISULFITE OR FERROUS SALT. PH: SODIUM BICARBONATE. Waste Disposal Method: DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. D001 WASTE BANNED FROM LANDFILLS. DISOLVE AND REDUCE SOLUTION. NEUTRALIZE TO PROPER PH. REMOVE SOLIDS FOR LAND DISPOSAL. LIQUID IS NOW NOT HAZARDOUS. Precautions-Handling/Storing: STORE IN A COOL, DRY AREA IN CLOSED CONTAINERS. SEGREGATE FROM ACIDS, PEROXIDES, AND ALL COMBUSTABLE, ORGANIC OR EASILY OXIDIZABLE MATERIALS.

Other Precautions: PROTECT CONTAINERS FROM DAMAGE.

Control Measures

Respiratory Protection: IN THE CASE WHERE OVEREXPOSURE MAY EXIST, WEAR A NIOSH/MSHA APPROVED DUST AND MIST RESPIRATOR OR AN AIR SUPPLIED RESPIRATOR. Ventilation: LOCAL AND MECHANICAL (GENERAL) EXHAUST SUFFICIENT TO KEEP EXPOSURE BELOW PEL. Protective Gloves: RUBBER OR PLASTIC GLOVES SHOULD BE WORN. Eye Protection: FACE SHIELD OR GOGGLES SHOULD BE WORN. Other Protective Equipment: WEAR NORMAL WORK CLOTHING COVERING ARMS AND LEGS AND RUBBER APRON. Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.