

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(Infotrac)
Company's Info Ph #: 1-800-224-1430
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PRODUCT NAME:Potassium Hydroxide

Ingredients/Identity Information

Ingredient: POTASSIUM HYDROXIDE (CERCLA) Percent: 100 Ingredient Action Code: A NIOSH (RTECS) Number: TT2100000 CAS Number: 1310-58-3 OSHA PEL: 2 MG/M3 ACGIH TLV: 2 MG/M3; 912

Physical/Chemical Characteristics

Appearance And Odor: WHITE HYGROSCOPIC SOLID - ODORLESS Boiling Point: 2408F,1320C Melting Point: 680F,360C Vapor Pressure (MM Hg/70 F): 100 Vapor Density (Air=1): UNKNOWN Specific Gravity: 2.044 Decomposition Temperature: UNKNOWN Evaporation Rate And Ref: NOT RELEVANT Solubility In Water: VERY

Fire and Explosion Hazard Data

Flash Point: NONE Extinguishing Media: USE WATER SPRAY, CARBON DIOXIDE (CO2), ALCOHOL FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS. Special Fire Fighting Proc: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire And Expl Hazrds: DIRECT CONTACT WITH MOISTURE OR WATER CAN CAUSE VIOLENT EXOTHERMIC REACTION GENERATING SUFFICIENT HEAT TO IGNITE NEARBY COMBUSTIBLE MATERIALS.

Reactivity Data

Stability: YES Cond To Avoid (Stability): MOISTURE Materials To Avoid: WATER, ACIDS, ALUMINUM, TIN, ZINC & ALLOYS, WEAK ACID GASES (CARBON DIOXIDE, HYDROGEN SULFIDE, SO2), CINNAMALDEHYDE Hazardous Decomp Products: SODIUM OXIDE, SODIUM PEROXIDE FUMES Hazardous Poly Occur: NO

Health Hazard Data

LD50-LC50 Mixture: TLV 2 MG/M3 (C) Route Of Entry - Inhalation: YES Route Of Entry - Skin: YES Route Of Entry - Ingestion: YES Health Haz Acute And Chronic: TARGET ORGANS:EYES, SKIN, RESPIRATORY & GI TRACTS. ACUTE- CORROSIVE. EYES:CAUSES SEVERE BURNS. SKIN:MAY CAUSE DEEP ULCER. MAY BE FATAL IF ABSORBED THROUGH SKIN. INHALE:MAY CAUSE UPPER RESPIRATORY TRACT IRRITATION & BURNS. ORAL:CAUSES SEVERE PAIN, NAUSEA, VOMITING, DIARRHEA. CAUSES BURNS OF GI TRACT. CHRONIC- DERMATITIS Signs/Symptoms Of Overexp: SEVERE BURNS, SEVERE IRRITATION, SEVERE PAIN, NAUSEA, VOMITING, DIARRHEA, DEEP SKIN ULCERS, COUGHING, BREATHING DIFFICULTY, SHOCK, POSSIBLY COMA Med Cond Aggravated By Exp: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE. Emergency/First Aid Proc: GET IMMEDIATE MEDICAL HELP FOR ALL CASES OF EXPOSURE. EYES/ SKIN:FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. REMOVE CONTAMINATED CLOTHING. INHALED:RE-MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK 2-4 CUPFULS OF MILK OR WATER. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WEAR PROTECTIVE EQUIPMENTS. VACCUM OR SWEEP UP AND PLACE IN APPROVED CONTAINERS FOR DISPOSAL. AVOID GENERATING DUSTY CONDITIONS. NEUTRALIZE REMAINING TRACES OF MATERIAL WITH ACID. WASH SPILL AREA WITH WATER TO REMOVE RESIDUAL CONTAMINATION. Neutralizing Agent: DILUTE INORGANIC ACID (SULFURIC, HYDROCHLORIC, PHOSPHORIC, NITRIC ACIDS). Waste Disposal Method: DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT TO LOCAL, STATE AND FEDERAL REGULATIONS. SMALL QUANTITIES MAY BE DISSOLVED IN WATER AND NEUTRALIZED WITH ACID. THE NEUTRALIZED SOLUTION MAY BE FLUSHED DOWN THE DRAIN IF PERMITTED. Precautions-Handling/Storing: STORE IN TIGHTLY CLOSED CONTAINER IN DRY PLACE AWAY FROM FLAMMABLE AND INCOMPATIBLE MATERIALS. KEEP OUT OF REACH OF CHILDREN. Other Precautions: USE WITH ADEQUATE VENTILATION. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT GENERATE DUST. DO NOT BREATHE DUST, MIST OR FUMES. WASH THOROUGHLY AFTER HANDLING. CAUTION! EMPTY CONTAINER RETAINS RESIDUE. DO NOT ALLOW WATER TO GET INSIDE.

Control Measures

Respiratory Protection: IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED DUST RESPIRATOR MUST BE WORN. A PROGRAM SHOULD BE INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134. Ventilation: GOOD GENERAL VENTILATION IS SUFFICIENT FOR MOST CONDITIONS (10 ROOM VOLUMES PER HOUR). Protective Gloves: RUBBER, PVC Eye Protection: SAFETY GLASSES WITH SIDE SHIELDS/GOGGLES Other Protective Equipment: RUBBER BOOTS, RUBBER APRON, EYE WASH FOUNTAIN, SAFETY SHOWER Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING