

## **POTASSIUM HYDROXIDE**

### **MSDS Number**

BXFPP

### **National Stock Number**

6810-00-136-6000

### **Product Name**

POTASSIUM HYDROXIDE

### **Manufacturer**

J T BAKER COMPANY

### **Product Identification**

Product ID:POTASSIUM HYDROXIDE

MSDS Date:01/24/1994

FSC:6810

NIIN:00-136-6000

MSDS Number: BXFPP

### **Responsible Party**

J.T. BAKER COMPANY

222 RED SCHOOL LANE

PHILLIPSBURG , NJ 08865-2219

US

Emergency Phone: 201-859-2151

Info Phone: 201-859-2151

Cage: 70829

### **Contractor**

MALLINCKRODT BAKER, INC.

PHILLIPSBURG, NJ 08865

US

800-582-2537

Cage: 70829

### **Ingredients**

POTASSIUM HYDROXIDE (SARA III)

CAS: 1310-58-3

RTECS: TT2100000

Fraction By Weight: 85-100%

OSHA PELC, 2 MG/M3

ACGIH TLV: C 2 MG/M3; 9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

### **Hazards**

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 365 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CHRONIC EFFECTS: LUNG DAMAGE.

Explanation of Carcinogenicity:NONE IDENTIFIED.

Effects of Overexposure:INHALATION-SEVERE IRRITATION OR BURNS OF

RESPIRATORY SYSTEM, ULCERATION OF MUCOUS MEMBRANES. SKIN-SEVERE BURNS. EYE-SEVERE BURNS, PERMANENT EYE DAMAGE. INGESTION-SEVERE BURNS TO MOUTH, THROAT AND STOMACH, & MAY BE FATAL.

Medical Condition Aggravated by Exposure: NONE IDENTIFIED.

## First Aid

First Aid: INGESTION-CALL A PHYSICIAN. DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER, THEN DILUTED VINEGAR, FRUIT JUICE OR EGG WHITES BEATEN WITH WATER. INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, PERFORM CPR. IF BREATHING IS HARD, GIVE OXYGEN. SKIN-FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MIN WHILE REMOVING SOILED CLOTHING. EYE-FLUSH WITH WATER FOR AT LEAST 15 MIN.

## Fire Fighting

Extinguishing Media: USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT & SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: A VIOLENT EXOTHERMIC REACTION OCCURS WITH WATER. SUFFICIENT HEAT MAY BE PRODUCED TO IGNITE COMBUSTIBLE MATERIALS. REACTS WITH MOST METALS TO FORM HYDROGEN GAS.

## Accidental Release

Spill Release Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER; REMOVE FROM AREA. FLUSH SPILL AREA WITH WATER.

Neutralizing Agent: NEUTRACIT-2 OR BACAIM CAUSTIC NEUTRALIZERS ARE RECOMMENDED FOR SPILL.

## Handling

Handling and Storage Precautions: KEEP CONTAINERS TIGHTLY CLOSED. STORE IN CORROSION PROOF AREA. ISOLATE FROM INCOMPATIBLE MATERIALS.

Other Precautions: NOTE: WHEN MIXING WITH WATER, ALWAYS ADD CAUSTIC SLOWLY TO WATER. CONTINUOUSLY STIR SOLUTION TO MINIMIZE SPATTERING. NEVER ADD WATER TO CAUSTIC. MATERIAL IS HYGROSCOPIC.

## Exposure Controls

Respiratory Protection: RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATIONS EXCEED TLV. AT CONCENTRATIONS UP TO 43 PPM, A HIGH-EFFICIENCY PARTICULATE RESPIRATOR IS RECOMMENDED. ABOVE THIS LEVEL, A SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves: NEOPRENE GLOVES ARE RECOMMENDED.

Eye Protection: SAFETY GOGGLES ARE RECOMMENDED.

Other Protective Equipment: UNIFORM, APRON ARE RECOMMENDED.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health  
CORROSIVE.

## Chemical Properties

HCC: B1

Boiling Pt: B.P. Text: 2408F, 1320C

Melt/Freeze Pt: M.P/F.P Text: 680F, 360C

Spec Gravity: 2.04

pH: 14

Solubility in Water: APPRECIABLE (>10%)

Appearance and Odor: WHITE TO LIGHT YELLOW PELLETS. ODORLESS.

Percent Volatiles by Volume: 0

## Stability

Stability Indicator/Materials to Avoid: YES

WATER, STRONG ACIDS, COMBUSTIBLE MATERIALS, ORGANIC MATERIALS, ZINC, ALUMINUM, TIN, CARBON DIOXIDE.

Stability Condition to Avoid: MOISTURE, HEAT.

Hazardous Decomposition Products:HYDROGEN GAS.

## Disposal

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.