

E M SCIENCE -- POTASSIUM HYDROXIDE,SOLID,PX (1478,1480,1485,1490,1495) -- 6810-00-234-8366

=====  
Product Identification  
=====

Product ID:POTASSIUM HYDROXIDE,SOLID,PX (1478,1480,1485,1490,1495)

MSDS Date:03/07/1995

FSC:6810

NIIN:00-234-8366

MSDS Number: BYDCW

=== Responsible Party ===

Company Name:E M SCIENCE

Address:480 DEMOCRATE RD

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Info Phone Num:609-

354-9200

Emergency Phone Num:609-354-9200/800-424-9300(CHEMTREC)

CAGE:0SK29

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:E M SCIENCE

Address:480 DEMOCRATE RD

Box:70

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Phone:609-354-9200/800-424-9300(CHEMTREC)

CAGE:0SK29

=====  
Composition/Information on Ingredients  
=====

Ingre

d Name:POTASSIUM HYDROXIDE (CERCLA)

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9495

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:LD50 ORAL RAT IS 365 MG/KG.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY

& GI TRACTS. ACUTE- CORROSIVE. SEVERE BURNS ON CONTACT WITH ANY BODY TISSUE. INHALE:SEVERE IRRITATION OF NOSE, THROAT. EYE:CAUSES PERMANENT, IRREVERSIBLE INJURY. SKIN:CAUSES BURNS. ORAL:WILL CAUSE BURNING & SEWELLING OF MOUTH, THROAT & ABDOMEN. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SEVERE IRRITATION, PAIN, BURNS

=====  
===== First Aid Measures =====

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SK

IN:IMMEDIATELY FLUSH

WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART.

INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER.

=====  
===== Fire Fighting Measures =====

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:A VIOLENT EXOTHERMIC REACTION OCCURS WITH WATER. SUFFICIENT HEAT MAY BE PRODUCED TO IGNITE COMBUSTIBLE MATERIALS. HIGHLY TOXIC FUMES MAY BE FORMED.

=====  
===== Accidental Release Measures =====

Spill Release Procedures:REMOVE IGNITION SOURCES (HYDROGEN MAY BE GENERATED). VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND

TIVE EQUIPMENT. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAIENR AND COVER. REMOVE FROM AREA. WASH SPILL AREA THOROUGHLY WITH WATER.  
Neutralizing Agent:ACID

=====  
Handling and Storage  
=====

Handling and Storage Precautions:STORE IN COOL, DRY PLACE AWAY FROM INCOMPATIBLES. VIOLENT REACTION CAN OCCUR WHEN MIXED WITH WATER/ACID. NEVER ADD WATER TO PRODUCT.

Other Precautions:DO NOT BREATHE DUSTS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. MATERIAL IS HYGROSCOPIC. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. WASH THOROUGHLY AFTER HANDLING.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:RESPIRATORY PROTECTION IS REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. A NIOSH-APPROVED AIR-SUPPLIED RESPIRAOR SHOULD BE USED. IN EMERGENCIES, A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

Ventilation:

USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:NEOPRENE OR LATEX

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:IMPERVIOUS PROTECTIVE CLOTHING SHOULD BE WORN TO PREVENT SKIN CONTACT. EYE WASH & SAFETY EQUIPMENT SHOULD BE AVAILABLE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

=====  
Physi  
cal/Chemical Properties  
=====

HCC:B1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=1320.C, 2408.F

Melt/Freeze Pt:=360.C, 680.F

Spec Gravity:2.044

pH:14 1 M

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:APPRECIABLE

Appearance and Odor:WHITE DELIQUESCENT PELLETS/FLAKES, ODORLESS

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

WATER, ACIDS AND THEIR ANHYDRIDES, COMMON METALS AND T

HEIR ALLOYS

Stability Condition to Avoid:MOISTURE

Hazardous Decomposition Products:MAY FORM HYDROGEN UPON REACTION WITH MOST METALS. MAY FORM TOXIC FUMES.

===== Disposal Considerations =====

Waste Disposal Methods:WASTE DISPOSAL TO BE PERFORMED IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. EPA HAZARDOUS WASTE NUMBER: D002 (CORROSIVE WASTE). CERCLA RQ: 1000 LBS.

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.