

FISHER SCIENTIFIC -- P2503, POTASSIUM HYDROXIDE (DRY SOLID, FLAKE,(SUPDAT) --  
6810-00-871-6613

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

Product ID:P2503, POTASSIUM HYDROXIDE (DRY SOLID, FLAKE,(SUPDAT)

MSDS Date:07/14/1993

FSC:6810

NIIN:00-871-6613

MSDS Number: CHCBM

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIRLAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num

:201-796-7100

Emergency Phone Num:800-424-9300(CHEMTREC)

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:POTASSIUM HYDROXIDE (CERCLA)

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 85%

OSHA PEL:2 MG/M3, C

ACGIH TLV:2 MG/M3, C

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1

000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 15%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:SUPP DATA:USE FLOODING AMOUNTS OF WATER AS FOG, APPLY FROM  
AS FAR A DISTANCE AS POSSIBLE.  
RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:INGEST OF STRONG ALKALIES MAY BE FOLLOWED  
BY SEV PAIN, VOMIT, DIARR & COLLAPSE. VOMITUS CNTNS (ING 5)  
RTECS #:9999999ZZ

Ingred Name:ING 4:BLOOD & DESQUAMATED MUCOSAL LINING. IF DEATH DOES NOT  
OCCUR IN 1ST 24 HRS. PATIENT MAY IMPR  
OVE FOR 2-4 DAYS(ING 6)  
RTECS #:9999999ZZ

Ingred Name:ING 5:& THEN HAVE SUDDEN ONSET OF SEV ABDOM PAIN, BOARDLIKE  
ABDOM RIGIDITY & RAPID FALL OF BLOOD PRESS INDICATING(ING 7)  
RTECS #:9999999ZZ

Ingred Name:ING 6:DELAYED GASTRIC/ESOPHAGEAL PERFORATION. DMG TO  
ESOPHAGUS & STOM AFTER INGEST MAY PROGRESS FOR 2-3 WKS. (ING 8)  
RTECS #:9999999ZZ

Ingred Name:ING 7:DEATH FROM PERITONITIS MAY OCCUR AS LATE AS 1 MONTH  
AFTER INGEST. EVEN THOUGH PATIENT RECOVERS FROM IMMED (ING 9)  
RTECS #:99999  
99ZZ

Ingred Name:ING 8:DMG. ESOPHAGEAL STRICTURE MAY OCCUR WKS, MONTHS/EVEN  
YEARS LATER TO MAKE SWALLOWING DFCLT. CHRONIC:INHAL: (ING 10)  
RTECS #:9999999ZZ

Ingred Name:ING 9:MAY CAUSE INFLAMMATORY & ULCERATIVE CHANGES IN MOUTH  
& POSS BRONCH & GI DISTURBS. SKIN:DERM/EFTS SIMILAR (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10:TO ACUTE. TUMORS IDENTICAL TO THOSE FROM COAL TAR;  
WARTS OCCURRED 1ST & THEN SKIN TUMORS DEVELOPED. EYE: (ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING 11:MAY RES

ULT IN CONJUNCTIVITIS OR EFFECTS AS IN ACUTE  
EXPOSURE. FOR MORE SPECIFIC INFO, CONTACT NEHC .  
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:SUSPECTED. ESOPHAGOSCOPY SHOULD USUALLY BE  
PERFORMED W/IN 24 HRS. MAINTAIN AIRWAY & TREAT SHOCK. (ING 14)  
RTECS #:9999999ZZ

Ingred Name:ING 13:IF VOMIT OCCURS, KEEP HEAD BELOW HIPS TO HELP  
PREVENT ASPIR. GET MED ATTN IMMED. ANTIDOTE:NO SPECIFIC (ING 15)  
RTECS #:9999999ZZ

Ingred Name:ING 14:ANTIDOTE. TREAT SYMPTOMATICALLY & SUPPORTIVELY. FOR  
MORE SPECIFIC INFO, CONTACT NEHC .  
RTECS #:9999999ZZ

Ingred Name:SPILL PROC:FROM SPILL AREA, FOR LARGER SPILLS, DIKE FAR  
AHEAD OF SPILL FOR LATER DISP. KEEP UNNEC PEOPLE AWAY. (ING 17)  
RTECS #:9999999ZZ

Ingred Name:ING 16:ISOLATE HAZARD AREA & DENY ENTRY. FOR MORE SPECIFIC  
INFO, CONTACT NEHC .  
RTECS #:9999999ZZ

Ingred Name:RESP PROT:PARTICULATE FILTER; ANY TYPE 'C' SUPPLIED-AIR  
RESP W/FULL FACEPIECE OPERATED IN PRESS-DEMAND/OTHER POS(ING 19)  
RTECS #:9999999ZZ

Ingred Name:ING 18:  
MODE/WITH FULL FACEPIECE, HELMET/HOOD OPERATED IN  
CONTINUOUS-FLOW MODE; ANY SCBA W/FULL FACEPIECE (ING 20)  
RTECS #:9999999ZZ

Ingred Name:ING 19:OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE  
PRESSURE MODE. FOR MORE SPECIFIC INFO, CONTACT NEHC .  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:LD50:(ORAL,RAT) 273 MG/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Hea

lth Hazards Acute and Chronic:CORR. ACUTE:INHAL:RESP TRACT IRRIT, COUGH, CHOKING, PAIN IN NOSE, MOUTH & THROAT, LESIONS OF NASAL SEPTUM & BURNS OF MUC MEMBS. PULM EDEMA, TIGHTNESS IN CHEST, DYSP, FROTHY SPUTUM, CYANOSIS & DIZZ. PH YSICAL FINDINGS MAY INCL WEAK, RAPID PULSE, HYPOTENSION, HEMOCONC & MOIST RALES. SKIN:SEV PAIN, BURNS &(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:BROWNISH STAINS. EYES:PAIN & BURNS, POSS SEV. T

HERE MAY BE EDEMA, DESTRUCT OF EPITHELIUM, CORNEAL OPACIFICATION & IRITIS. LATE COMPLICATIONS MAY INCL PERSISTENT EDEMA, VASCULARIZATION & SCARR ING OF CORNEA, PERM OPACITY, STAPHYLOMA, CATARACT & SYMBLEPHARON. INGEST:WAS LETHAL TO RATS TESTED. (ING 4)

Medical Cond Aggravated by Exposure:PERSONS W/PRE-EXISTING SKIN & EYE CONDITIONS ARE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHAL:REMOVE TO FRESH AIR. S  
UPPORT BRTHG (GIVE O\*2/ARTF RESP)

. EYES:IMMED FLUSH W/POTABLE WATER FOR AT LST 15-20 MINS, SEEK ASSISTANCE FROM MD . SKIN:FLUSH W/COPIOUS AMTS OF WATER. CALL M D . INGEST:DILUTE ALKALI BY GIVING WATER/MILK IMMED & ALLOW VOMIT TO OCCUR. AVOID GASTRIC LAVAGE/EMETICS. ESOPHAGOSCOPY IS ONLY WAY TO EXCLUDE POSS OF CORR IN UPPER GI TRACT; IF CORR IS (ING 13)

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

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WAT  
ER SPRAY OR

REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Procedures:USE NIOSH APPRVD SCBA & FULL PROT EQUIP . MOVE CNTNR FROM FIRE AREA IF YOU CAN DO IT W/OUT RISK. APPLY COOLING WATER TO SIDES OF CNTNRS THAT ARE (SUPDAT)

Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

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

Spill Release Procedures:DO NOT TOUCH SPILLED MATL. STOP LEAK IF

YOU

CAN DO IT W/OUT RISK. FOR SM SPILLS, TAKE UP W/SAND OR OTHER ABSORB MATL & PLACE INTO CNTNRS FOR LATER DISP. FOR SM DRY SPILLS, W/CLEAN SHOVEL, PLACE MATL INTO CLEAN, DRY CNTNR & COVER. MOVE CNTNRS (ING 16)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS WHEN STORING THIS SUBSTANCE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A DRY PLACE; PROTECT AGAINST MOISTURE & WATER. SEPARATE FROM ACIDS, METALS, EXPLOSIVES, ORGANIC PEROXIDES & EASILY IGNITABLE MATERIALS.

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

Respiratory Protection:SPECIFIC RESP MUST BE NIOSH APPROVED: ANY DUST & MIST RESP W/FULL FACEPIECE; ANY AIR-PURIFYING FULL FACEPIECE RESP W/HIGH-EFFICIENCY PARTICULATE FILTER; ANY POWERED AIR-PURIFYING RESP W

/TIGHT FITTING FACEPIECE & HIGH-EFFICIENCY (ING 18)

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION SYSTEM TO MEET PELS.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGLES &(SUPDAT)

Other Protective Equipment:ANSI APPROVED EYE WASH FOUNTAIN & DELUGE SHOWER . APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING & EQUIPMENT.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

MFR'S TRADE NAME/PART NO:BEAD OR GRANULAR). APPEAR/ODOR:RHOMBIC CRYSTALS

; ODORLESS. CONDENSERS(STAB):(WOOD, PAPER, OIL, ETC). EYE PROT:FULL LENGTH FACE SHIELD . FIRE FIGHT PROC:EXPOSE TO FLAMES, UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. EXTING USING AGENTS SUITABLE FOR TYPE OF SURROUND FIRE. (ING 3)

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===== Physical/Chemical Properties =====

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

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

Vapor Pres:1 @ 71C

Spec Gravity:2.044

Solubility in Water:100% (REACTS)

Appearance and O

Color: WHITE TO SLIGHTLY YELLOW, DELIQUESCENT LUMPS, RODS,  
PELLETS, FLAKES OR (SUPDAT)

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

Stability Indicator/Materials to Avoid: YES

VIGOROUS, EXOTHERMIC RXN W/WATER. INCOMPAT W/ACIDS, ALCOHOLS, ALUMINUM,  
ETC. FOR MORE SPECIFIC INFO, CONTACT NEHC.

Stability Condition to Avoid: MAY BURN BUT DOES NOT IGNITE READILY.

FLAMM. POISONOUS GASES MAY ACCUMULATE IN TANKS & HOPPER CARS. MAY IGNITE  
COMBUSTS (SUPDAT)

Hazardous Decomposition Products:

THERMAL DECOMPOSITION PRODUCTS MAY  
INCLUDE CORROSIVE FUMES OF POTASSIUM OXIDE.

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

Waste Disposal Methods: OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS  
WHEN DISPOSING OF THIS SUBSTANCE.

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