

FISHER SCIENTIFIC, CHEMICAL DIV. -- SP236200 POTASSIUM HYDROXIDE SOLUTION 40-50% --  
3655-01-220-2158

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

Product ID:SP236200 POTASSIUM HYDROXIDE SOLUTION 40-50%

MSDS Date:09/02/1997

FSC:3655

NIIN:01-220-2158

MSDS Number: CHMFF

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

In

fo Phone Num:201-796-7100 OR 201-796-7523

Emergency Phone Num:201-796-7100/800-424-9300(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: 40-50%

Other REC Limits:NONE RECOMMEND

ED

OSHA PEL:C 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:EYE:CAUSES SEVERE BURNS.MAY CAUSE

IRREVERS EYE INJURY.CONTACT MAY CAUSE ULCERATION OF  
CONJUNCTIVA/CORNEA.EYE DMG MAY BE DELAYED.SKIN:CAUSES BURNS.MAY  
CAUSE DEEP,PENETRATING ULCERS.INGEST:MAY CAUSE CIR CULATORY SYSTEM  
FAILURE.MAY CAUSE PERFORATION OF DIGESTIVE TRACT.CAUSES SEVERE  
DIGESTIVE TRACT BURNS W/ABD (SIGN/SYMPTO)

Explanation of Carcinogenicity:PER MSDS:INGREDS NOT LISTED BY  
ACGIH,IARC,NIOSH,NTP,OSHA AS CARCINOGENS.

Effects of Overexposure:HEALTH:PAIN,VOMITING,POSSIBLE DEATH.INHAL:IRRIT  
MAY LEAD TO

CHEM PNEUMONITIS,PULM EDEMA.CAUSES SEVERE IRRIT OF  
UPPER RESP TRACT W/COUGHING,BURNS,BREATHING DIFFICULTY,POSSIBLE  
COMA.CHRONIC:PROL/REP SKI N CONTACT MAY CAUSE DERM.PROL/REP EYE  
CONTACT MAY CAUSE CONJUNCTIVITIS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE:IMMED FLUSH W/PLENTY OF H2O @LEAST 15MINS,LIFT  
EYELIDS.GET MED AID IMMED.SKIN:GET MED AID IMMED.IMMED FLUSH  
W/PLE  
NTY OF SOAP/H2O @LEAST 15MINS WHILE REMOVE CONTAM  
CLOTH/SHOES.INGEST:DONT INDUCE VO MIT.VICTIM CONSC/ALERT GIVE 2-4  
CUPFULSO F MILK/H2O.NEVER GIVE ANYHTING BY MOUTH IF UNCONSC.GET MED  
AID IMMED.INHAL:GET MED AID IMMED.REMOVE TO FRESH AIR IMMED.NOT  
BREATH GIVE ART RESP;BREATH(SUPPLEM)

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

Flash Point:N/AVAILABLE  
Autoignition Temp:Autoignition Temp Text:B/AVAI  
Lower Limits:N/AVAI  
Upper Limits:N/AVAI  
Extinguishing Med  
ia:SM FIRES:USE DRY CHEMICAL,CARBON DIOXIDE,WATER  
SPRAY OR ALCHOL-RESIST FOAM.  
Fire Fighting Procedures:WEAR APPROP PROT CLOTH-PREVENT SKIN/EYE  
CONTACT.WEAR SCBA TO PREVENT THERM DECOMPO PROD CONTACT.USE H2O  
W/CAUT & IN FLOODING AMTS.CONTACT W/MOISTURE/H2O(SUPPLE)  
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:USE PROPER PPE AS INDICATED IN MSDS.ABSORB  
SPILL W/INERT MATL(

E.G. DRY SAND,EARTH),THEN PLACE INTO CHEM WASTE  
CNTNR.NEUTRALIZE SPILL WITH WEAK ACID SUCH AS VINEGAR OR ACETIC  
ACID.

Neutralizing Agent:WEAK ACID SUCH AS VINEGAR OR ACETIC ACID.

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

Handling and Storage Precautions:WASH THOROUGHLY AFAT HNDLG.REMOVE  
CONTAM CLOTH;WASH BEF REUSE.USE W/ADEQU VENTI.DONT GET IN  
EYE/SKIN/CLOTH.DONT INGEST/INHAL.STORE IN TIGHTLY CLSD CNT

Other Precautions:STORE IN COOL DRY WELL-VENTI AREA  
AWAY FROM

INCOMPATIBLE SUBSTANCES.KEEP AWAY FROM STRONG ACIDS.

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

Respiratory Protection:FOLLOW OSHA RESPIRATOR REGUALTIONS FOUND IN  
29CFR1910.134.ALWAYS USE NIOSH-APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation:USE ADEQU GENERAL OR LOCAL EXHAUST VENTI TO KEEP AIRBORNE  
CONCENTRATIONS BELOW PERMISSIBLE EXPO LIMITS.

Protective Gloves:APPROPRIATE GLOVES

Eye Protection:EYEGLASSES,CHE SAF GOGG PER 29CFR1910.1.

Other Prote

ctive Equipment:APPROPRIATE PROTECTIVE CLOTHING TO PREVENT  
SKIN EXPO.

Work Hygienic Practices:DISCARD CONTAM CLOTH IN MANNER WHICH LIMITS  
FURTHER EXPO.

Supplemental Safety and Health

PH FOR 0.1M SOLN. 1ST AID:DIFFI GIVE OXY.NOTES TO DR:TREAT  
SYMPT/SUPPROTIVELY.ANTIDOTE:NONE REPORTED. FIREFIGHT:MAY GENERATE  
SUFFIC HEAT TO IGN NEARBY COMBUST MATLS.

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

HCC:B1

Boiling Pt:B.P. Text:271F,133C

Melt/Freeze Pt:M.P/F.P Text

:48.0F,8.9C

Decomp Temp:Decomp Text:N/AVAI

Vapor Pres:2.6

Vapor Density:0.62

Spec Gravity:1.51

pH:12.0

Viscosity:3.7CP

Evaporation Rate & Reference:N/AVAI

Solubility in Water:COMPLETELY

Appearance and Odor:LIQUID, CLEAR TO SLIGHTLY TURBID, ODORLESS

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

NOT AVIALABLE. HMIS:ACIDS,METALS.

Stability Condition to Avoid:INCOMPATIBLE MATLS, AC

IDS, METALS.

Hazardous Decomposition Products:OXIDES OF POTASSIUM.

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

Waste Disposal Methods:DISPO OF IN MANNER CONSISTENT W/LOCAL, STATE AND  
FEDERAL REGULATIONS.RCRA-NOT LISTED.NOT LISTED AS MATL BANNED FROM  
LAND FISPO ACCORDING TO RCRA.POTASSIUM HYDROXIDE LISTED AS HAZ  
SUBST UNDER CWA.

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.