

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.

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