

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

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Product Identification
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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

Info 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

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Composition/Information on Ingredients
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Ingred Name:POTASSIUM HYDROXIDE (CERCLA)
CAS:1310-58-3
RTECS #:TT2100000
Fraction by Wt: 40-50%
Other REC Limits:NONE RECOMM
ENDED
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

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Hazards Identification
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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

IRREVERSIBLE 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 CIRCULATORY SYSTEM FAILURE. MAY CAUSE PERFORATION OF DIGESTIVE TRACT. CAUSES SEVERE DIGESTIVE TRACT BURNS W/ ABD (SIGN/SYMPTO)

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

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

TO CHEM PNEUMONITIS, PULM EDEMA. CAUSES SEVERE IRRITATION OF UPPER RESP TRACT W/ COUGHING, BURNS, BREATHING DIFFICULTY, POSSIBLE COMA. CHRONIC: PROL/REP SKIN 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: IMMEDIATELY FLUSH W/ PLENTY OF H₂O @ LEAST 15 MINS, LIFT EYELIDS. GET MED AID IMMEDIATELY. SKIN: GET MED AID IMMEDIATELY. IMMEDIATELY FLUSH W/ PLENTY OF SOAP/H₂O @ LEAST 15 MINS WHILE REMOVE CONTAMINATED CLOTH/SHOES. INGEST: DON'T INDUCE VOMIT. VICTIM CONSCIOUS/ALERT GIVE 2-4 CUPS OF MILK/H₂O. NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. GET MED AID IMMEDIATELY. INHAL: GET MED AID IMMEDIATELY. REMOVE TO FRESH AIR IMMEDIATELY. NOT BREATH GIVE ART RESP; BREATH (SUPPLEMENT)

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

Flash Point: N/A AVAILABLE

Autoignition Temp: Autoignition Temp Text: B/A AVAILABLE

Lower Limits: N/A AVAILABLE

Upper Limits: N/A AVAILABLE

Extinguishing

Media: SMALL FIRES: USE DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR ALCOHOL-RESISTANT FOAM.

Fire Fighting Procedures: WEAR APPROPRIATE PROTECTIVE CLOTH - PREVENT SKIN/EYE CONTACT. WEAR SCBA TO PREVENT THERMAL DECOMPOSITION PRODUCT CONTACT. USE H₂O W/ CAUTION & IN FLOODING AMOUNTS. CONTACT W/ MOISTURE/H₂O (SUPPLEMENT)

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 MATERIAL

TL(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.

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===== 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 A
REA AWAY FROM
INCOMPATIBLE SUBSTANCES.KEEP AWAY FROM STRONG ACIDS.

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===== 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 Pr

otective 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.

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

HCC:B1

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

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

ext: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

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

Stability Indicator/Materials to Avoid:YES

NOT AVIALABLE. HMIS:ACIDS,METALS.

Stability Condition to Avoid:INCOMPATIBLE MATLS,

ACIDS, 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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