

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

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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 RECOMMEN

DED

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

OCHEM PNEUMONITIS, PULM EDEMA. CAUSES SEVERE IRRITATION OF UPPER RESPIRATORY TRACT W/ COUGHING, BURNS, BREATHING DIFFICULTY, POSSIBLE COMA. CHRONIC: PROL/REP SKIN CONTACT MAY CAUSE DERM. PROL/REP EYE CONTACT MAY CAUSE CONJUNCTIVITIS.

Medical Condition Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

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

First Aid: EYE: IMMEDIATE FLUSH W/ PLENTY OF H<sub>2</sub>O @ LEAST 15 MINS, LIFT EYELIDS. GET MED AID IMMEDIATE. SKIN: GET MED AID IMMEDIATE. IMMEDIATE FLUSH W/ PL

ENTY OF SOAP/H<sub>2</sub>O @ LEAST 15 MINS WHILE REMOVE CONTAMINATED CLOTH/SHOES. INGEST: DON'T INDUCE VOMIT. VICTIM CONSCIOUS/ALERT GIVE 2-4 CUPS OF MILK/H<sub>2</sub>O. NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. GET MED AID IMMEDIATE. INHAL: GET MED AID IMMEDIATE. REMOVE TO FRESH AIR IMMEDIATE. NOT BREATH GIVE ART RESPIR; BREATH (SUPPLEMENT)

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

Flash Point: N/A AVAILABLE

Autoignition Temp: Autoignition Temp Text: B/AVAI

Lower Limits: N/AVAI

Upper Limits: N/AVAI

Extinguishing Media

SM 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 H<sub>2</sub>O W/ CAUTION & IN FLOODING AMOUNTS. CONTACT W/ MOISTURE/H<sub>2</sub>O (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

(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 ARE

A 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:EYEGASSES,CHE SAF GOGG PER 29CFR1910.1.

Other Prot

ective 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 Tex

t: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, A

CIDS, 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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