

FISHER SCIENTIFIC CO CHEMICAL DIV. -- SODIUM HYDROXIDE -- 6810-00-234-8373

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

Product ID:SODIUM HYDROXIDE

MSDS Date:04/22/1989

FSC:6810

NIIN:00-234-8373

MSDS Number: BMBTN

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

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

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:SODIUM HYDROXIDE

CAS:1310-73-2

RTECS #:WB4900000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED BY M.

OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

=====

LD50 LC50 Mixture:ORAL, RAT, LD50 = 140-340 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and

Chronic:EYES:CORROSIVE,IRRITATION,BURNS,BLINDNESS.  
SKIN:CORROSIVE,IRRITATION,BURNS. INHALATION:SEVERE IRRITATION,  
DAMAGE OF UPPER RESPIRATORY TRACT, PNEUMONITIS MAY OCCUR.  
INGESTION:CORROSIVE,BURNING OF MOUTH ,THROAT,STOMACH, DEATH.  
CHRONIC:DERMATITIS, CORNEAL,NASAL,BRONCHIAL AND GAST

RIC ULCERATION,  
CONJUNCTIVITI

Explanation of Carcinogenicity:DATA PER MGF MSDS.

Effects of Overexposure:IRRITATION TO SEVERE BURNS OF SKIN AND EYES. ,  
ABDOMINAL PAIN, BLOODY VOMITING AND DIARRHEA., SOAR THOAT, COUGHING  
AND DYSPNEA.

Medical Cond Aggravated by Exposure:SKIN DISORDERS, EYE PROBLEMS &  
IMPAIRED RESPIRATORY FUNCTION.

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

First Aid:EYES:FLUSH WITH WATER FOR AT LEAST 15 MIN. GET IMMED MEDICAL  
HELP. SKI

N:WASH WITH WATER AND REMOVE CONTAMINATED CLOTHES & SHOES.  
SEE DOCTOR IMM. INHALATION:REMOVE TO FRESH AIR. IF NOT BREATHING  
GIVE C PR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL  
HELP. INGESTION:DO NOT INDUCE VOMITING. GIVE WATER/MILK, FOLLOWED  
BY CITRUS FRUIT JUICE. NOTHING BY MOUTH IF UNCONSCIOUS.SEE DOCTOR  
IMMEDIATELY.

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

Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING  
FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &  
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER  
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:HOT OR MOLTEN MATERIAL CAN REACT  
VIOLENTLY WITH WATER. CAN REACT WITH CERTAIN METALS SUCH AS  
ALUMINUM TO GENERAL FLAMMABLE HYDROGEN GAS.

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

Spill Release Procedures:CLEAN UP PERSONNEL REQUIRE PROTECTIV

E CLOTHING  
& RESP PROTECTION FROM DUST. SWEEP,SCOOP OR PICK UP SPILLED MATERIAL. AVOID DUSTNG. TRANSFER WASTE TO A CLOSED CONTAINER FOR DISPOSAL. DO NOT FLUSH TO THE SEWER. NEUTRALIZE RESIDUE WITH 5% ACETIC ACID.

Neutralizing Agent:5% ACETIC ACID

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

Handling and Storage Precautions:STORE IN COOL,DRY WELL VENTED LOW FIRE RISK AREA. PROTECT FROM HEAT,SHOCK,FRICTION. KEEP CONTAINERS CLOSED.

Other Precautions:

KEEP AWAY FROM INCOMPATIBLE MATERIALS. ALWAYS ADD THE CAUSTIC TO WATER WHILE STIRRING;NEVER THE REVERSE.

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

Respiratory Protection:NONE NORMALLY REQUIRED. USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF TLV IS EXCEEDED OR WHEN SPRAYING OR USING IN CONFINED SPACES.

Ventilation:LOCAL EXHAUST TO ELIMINATE MISTS/FUMES/GASES.

Protective Gloves:IMPERVIOUS

Eye Protection:CHEM.SFTY GOGGLES AND/OR FULL FACESHIELD

Othe

r Protective Equipment:IMPERVIOUS PROTECTIVE CLOTHING,INCLUDING BOOTS, LAB COAT,APRON OR COVERALLS TO PREVENT SKIN CONTACT.EYE WASH&SFTY SHOWER

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. THIS SUBSTANCE IS CLASSIFIED AS A POISON.

Supplemental Safety and Health

MTLS TO AVOID,CONT'D:CONTACT W.NITROMETHANE & OTHER SIMILAR NITRO COMPDs CAUSES FORMATION OF SHOCK-SENSITIVE SALTS; CONTACT W.METALS SUCH AS ALUMINUM,TIN,AND ZINC CAUSES FORMATION OF FLAMMABLE HYDROGE N

GAS. ADDING WATER TO CAUSTIC SOLUTIONGENERATES LARGE AMOUNTS OF HEAT.

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

HCC:B1

Boiling Pt:B.P. Text:2534F,1390C

Melt/Freeze Pt:M.P/F.P Text:604F,318C

Spec Gravity:2.13

pH:14.0

Solubility in Water:COMPLETE

Appearance and Odor:WHITE, HYGOSCOPIC PELLETS.

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

Stability Indicator/Materials to Avoid:YES

ACIDS,FLAMM LIQUIDS AND CHLORINATED ORGANIC COMPDs, ORGANIC

PEROXIDES-SEE SUPPL.

Stability Condition to Avoid:VERY HYGROSCOPIC.CAN SLOWLY PICK UP  
MOISTURE FROM AIR AND REACT WITH CO2 IN AIR TO FORM SODIUM  
CARBONATE.

Hazardous Decomposition Products:SODIUM OXIDE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by element

s 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.