



2180 SODIUM HYDROXIDE SOLUTION 50% (W/W)

MSDS Number

BBDJY

National Stock Number

6810-00D000816

Product Name

2180 SODIUM HYDROXIDE SOLUTION 50% (W/W)

Manufacturer

HACH CO

Product Identification

Product ID:2180 SODIUM HYDROXIDE SOLUTION 50% (W/W)

MSDS Date:04/10/1990

FSC:6810

NIIN:00D000816

MSDS Number: BBDJY

Responsible Party

HACH CO.

100 DAYTON RD.

LOVELAND , CO 80539

US

Emergency Phone: 800-227-4224

Info Phone: 800-227-4224

Cage: 91224

Contractor

HACH CO

389

LOVELAND, CO 80539

US

970-669-3050/ 303-623-5716

Cage: 91224

Ingredients

SODIUM HYDROXIDE (SARA III)

CAS: 1310-73-2

RTECS: WB4900000

Fraction By Weight: 50%

OSHA PEL2 MG/M3

ACGIH TLV: C 2 MG/M3; 9394

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

WATER (DEIONIZED OR DISTILLED)

CAS: 7732-18-5

RTECS: ZC0110001



Fraction By Weight: 50%

Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 300 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION MAY CAUSE
RESPIRATORY IRRITATION OR LUNG DAMAGE. CONTACT MAY IRRITATE OR BURN
SKIN AND EYES. SWALLOWING MAY CAUSE SEVERE GI TRACT IRRITATION AND
BURNS TO MUCOUS MEMBRANES IN MOUTH AND THROAT. CHRONIC: NONE
SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity:SODIUM HYDROXIDE IS NOT LISTED BY NTP OR
IARC AS A CARCINOGEN.

Effects of Overexposure:INHALED: COUGHING, SNEEZING, WHEEZING,
SHORTNESS OF BREATH, BURNING SENSATION IN CHEST, CHEST PAIN. SKIN:
REDNESS, BURNS, PAIN, SWELLING, BLISTERS. EYES: PAIN, TEARING,
REDNESS, SWELLING. INGESTED: PAIN IN THROAT-MOUTH-STOMACH, NAUSEA,
VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN, EYE AND
RESPIRATORY CONDITIONS.

First Aid

First Aid:INHALED: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF
REQUIRED. SEE DOCTOR. SKIN: FLUSH WITH LOTS OF WATER, REMOVE
CONTAMINATED CLOTHES. CALL DOCTOR. EYES: FLUSH WITH LOTS OF WATER
FOR 15 MINUTES, HOLD LIDS OPEN. GET MEDICAL ATTENTION. INGESTED:
DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE LARGE AMOUNT OF WATER.
GET IMMEDIATE MEDICAL ATTENTION.

Fire Fighting

Flash Point:NONE

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:MAY REACT VIOLENTLY WITH ACIDS OR ORGANIC
HALOGENS. MAY EMIT TOXIC FUMES OF SODIUM OXIDE IN FIRE.

Accidental Release

Spill Release Procedures:PUT IN A BEAKER, DILUTE WITH WATER AND
NEUTRALIZE WITH 6M HCL. WASH DOWN THE DRAIN WITH A LARGE EXCESS OF
WATER IF OK WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Neutralizing Agent:6M HCL

Handling

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM
INCOMPATIBLE MATERIALS.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

Exposure Controls

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE
OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR WITH ACID
MIST CARTRIDGE. USE IN ACCORDANCE WITH 29 CFR 1910.134 AND
RESPIRATOR MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE
BELOW REGULATORY LIMITS.

Protective Gloves:PVC, NEOPRENE

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. CLOTHING
TO PREVENT SKIN CONTACT (EG LAB COAT OR COVERALLS).

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

MSDS DATED 6-12-85.

Chemical Properties

HCC:C2



Boiling Pt: B.P. Text: 284F, 140C
Vapor Pres: 13 MM HG
Spec Gravity: 1.53 (WATER=1)
pH: 14
Evaporation Rate & Reference: N/K (N-BUTYL ACETATE=1)
Solubility in Water: APPRECIABLE
Appearance and Odor: CLEAR, COLORLESS LIQUID; PUNGENT ODOR

Stability

Stability Indicator/Materials to Avoid: YES
STRONG MINERAL ACIDS, ORGANIC HALOGEN COMPOUNDS.
Stability Condition to Avoid: CONTACT WITH INCOMPATIBLE MATERIALS.
Hazardous Decomposition Products: SODIUM OXIDE IF INVOLVED IN A FIRE.

Disposal

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

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