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Material Safety Data Sheet Sodium hydroxide, purum pellets

ACC# 21300

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium hydroxide, purum pellets
Catalog Numbers: AC134070010, AC134070025, S71990, S71990-1, S71991, S71992, S71993-2, S71993-3, S71993-4, S78605, BP359 212, BP359 500, BP359-212, BP359-500, B BP359500, BW1358050, BW13580500, BW1358350, BW13583500, BW1358354, NC951781 10, S318 100, S318 3, S318 5, S318 50, S318 500, S318-1, S318-10, S318-100, S318-3, S31 S318-500, S3181, S31810, S318100, S3183, S3183LC, S3185, S31850, S318500, S31850L 10, S320 3, S320 50, S320 500, S320-1, S320-10, S320-3, S320-50, S320-500, S3201, S320 S32050, S320500, S612 3, S612 50, S612-3, S612-50, S6123, S61250, S612500LB, S613 10 50, S613-10, S613-3, S613-50, S61310, S6133, S61350, S613500LB
Synonyms: Caustic soda, Aetznatron, soda lye, sodium hydrate
Company Identification:
 Fisher Scientific
 1 Reagent Lane
 Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EIN
1310-73-2	Sodium hydroxide	100	

Hazard Symbols: C
Risk Phrases: 35

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white. **Danger!** Corrosive. Hygroscopic. Causes digestive and respiratory tract burns. Causes severe eye and skin burns.

Target Organs: None.

Potential Health Effects

Eye: Causes severe eye burns.

Skin: Causes skin burns. May cause deep, penetrating ulcers of the skin.

Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns. Causes severe pain, nausea, diarrhea, and shock.

Inhalation: Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the lower lids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a way that limits further exposure.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water to give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Firefighting Measures

General Information: Wear appropriate protective clothing to prevent contact with skin and eyes. Use self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol foam.

Autoignition Temperature: Not available.

Flash Point: Not available. (estimated) Health: 3; Flammability: 0; Reactivity: 1 Explosion Limit available. Upper: Not available.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid dusty conditions.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Do not allow water contact because of violent reaction. Do not get in eyes, on skin, or on clothing. Do not ingest.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from acids. Keep away from water. Keep away from metals. Keep away from flammable liquids. Keep away from organic halogens. Corrosives area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA
Sodium hydroxide	C 2 mg/m ³	10 mg/m ³ IDLH	2 mg

OSHA Vacated PELs: Sodium hydroxide: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles or face shield if handling liquids.

Skin: Wear impervious gloves.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: white

Odor: odorless

pH: Not available.

Vapor Pressure: 100 mm Hg

Vapor Density: Not available.

Evaporation Rate:

Viscosity: Not available.

Boiling Point: 1390760.00 deg C

Freezing/Melting Point: 318 deg C

Decomposition Temperature: Not available.

Solubility: 1 g/0.9 ml water

Specific Gravity/Density: 2.1300g/cm³

Molecular Formula: HNaO

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials, moisture, contact with water, acids.

Incompatibilities with Other Materials: Generates large amounts of heat when in contact with water, may steam and splatter. Reacts with mineral acids to form corresponding salts; reacts with weak acids like hydrogen sulfide, sulfur dioxide, and carbon dioxide; ignites when in contact with cinnamaldehyde and reacts explosively with a mixture of chloroform and methane. Corrosive to metals such as aluminum and zinc as well as to alloys such as steel, and may cause formation of flammable hydrogen gas.

Hazardous Decomposition Products: Toxic fumes of sodium oxide, sodium peroxide fumes

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 1310-73-2: WB4900000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 1310-73-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information reported.

Teratogenicity: No information reported. No information reported.

Reproductive Effects: No information reported.

Neurotoxicity: No information reported.

Mutagenicity: Mutation data reported.

Other Studies: No information reported/

Section 12 - Ecological Information

Ecotoxicity: TLm, mosquito fish, 125 ppm/96hr. (fresh water); TLm, bluegill, 99 mg/48hr. (tap

Environmental Fate: This chemical is not mobile in solid form, although it absorbs moisture in liquid, sodium hydroxide leaches rapidly into the soil, possibly contaminating water sources.

Physical/Chemical: No information found.

Other: No information found.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants: None listed.

RCRA D-Series Chronic Toxicity Reference Levels: None listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO
Shipping Name:	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE SOLIDS
Hazard Class:	8	88(41B)	88(9.2)	
UN Number:	UN1823	UN1823	UN1823	
Packing Group:	II	II		III

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 1310-73-2 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 1310-73-2: final RQ = 1000 pounds (454 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 1310-73-2: acute, reactive.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA. None of the chemicals i are listed as Priority Pollutants under the CWA. None of the chemicals in this product are liste Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 1310-73-2 can be found on the following state right to know lists: California, New Jerse Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

C

Risk Phrases:

R 35 Causes severe burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical ad
Wear suitable gloves and eye/face protection. S 45 In case of accident of if you feel unwell, se
advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 1310-73-2: 1

Canada

CAS# 1310-73-2 is listed on Canada's DSL/NDL List.

This product has a WHMIS classification of E.

CAS# 1310-73-2 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 1310-73-2: OEL-AUSTRALIA:TWA 2 mg/m3 OEL-BELGIUM:STEL 2 mg/m3
OEL-DENMARK:TWA 2 mg/m3 OEL-FINLAND:TWA 2 mg/m3 OEL-FRANCE:TWA 2 mg
/m3 OEL-GERMANY:TWA 2 mg/m3 OEL-JAPAN:STEL 2 mg/m3 OEL-THE NETHERLA
NDS:TWA 2 mg/m3 OEL-THE PHILIPPINES:TWA 2 mg/m3 OEL-SWEDEN:TWA 2 mg/
m3 OEL-SWITZERLAND:TWA 2 mg/m3;STEL 4 mg/m3 OEL-THAILAND:TWA 2 mg/m3
OEL-TURKEY:TWA 2 mg/m3 OEL-UNITED KINGDOM:TWA 2 mg/m3;STEL 2 mg/m3
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW
ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 4/25/1995

Revision #21 Date: 12/12/1997

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