


SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	SODIUM HYDROXIDE, NF
PRODUCT CODE	1752
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 626 Tom Miller Road, Plattsburgh, NY, 12901 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670
RECOMMENDED USES	Pharmaceutical Manufacturing
RESTRICTIONS ON USE	Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Acute Toxicity - Oral (Category 4) Acute Toxicity - Dermal (Category 4) Skin Corrosion (Category 1A) Eye Damage (Category 1)
PICTOGRAM	
SIGNAL WORD	Danger
HAZARD STATEMENT(S)	Harmful if swallowed Causes serious eye damage. Causes severe skin burns and eye damage. Swallowing may cause severe burns of mouth, throat and stomach. Harmful in contact with skin May be corrosive to metals Harmful to aquatic life
ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS	Not Applicable.
PRECAUTIONARY STATEMENT(S)	Prevention Wash hands thoroughly after handling. Do not touch eyes. Do not eat, drink or smoke when using this product. Do not breathe dust or mist. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye and face protection. Avoid release to the environment.

Response	<p>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Immediately rinse skin with water for several minutes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately; Immediately call a poison center or medical professional; IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves, protective clothing, eye and face protection</p>		
Storage	Store locked up.		
Disposal	Dispose of contents and/or container in accordance with local regulations.		
Health Hazard	3	Flammability	0
Reactivity	1	Personal Protection	H

HMIS CLASSIFICATION

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	Sodium Hydroxide								
BOTANICAL NAME	Not applicable								
SYNONYM	Caustic soda								
CHEMICAL FORMULA	NaOH								
CHEMICAL FAMILY	Not applicable								
CAS NUMBER	1310-73-2								
ALTERNATE CAS NUMBER	Not applicable								
MOLECULAR WEIGHT	40.00								
COMPOSITION	<table border="1"> <thead> <tr> <th>CHEMICAL NAME</th> <th>CAS NUMBER</th> <th>EC NUMBER</th> <th>% BY WEIGHT</th> </tr> </thead> <tbody> <tr> <td>SODIUM HYDROXIDE</td> <td>1310-73-2</td> <td>215-185-5</td> <td>100</td> </tr> </tbody> </table>	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT	SODIUM HYDROXIDE	1310-73-2	215-185-5	100
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SODIUM HYDROXIDE	1310-73-2	215-185-5	100						

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.
IN CASE OF SKIN CONTACT	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.
SYMPTOMS CAUSED BY EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Not applicable

FLAMMABLE PROPERTIES

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA
Small fire: dry chemical, CO₂ or water spray. **Large fire:** dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT

On land, sweep or shovel into suitable containers. Minimize generation of dust.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE
PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

STORAGE CONDITIONS

Store in original container, tightly sealed, protected from direct sunlight and moisture.

Store at controlled room temperature. Controlled room temperature indicates a temperature 20° to 25°C (68° to 77°F); that results in a mean kinetic temperature calculated to be not more than 25°C; and that allows for excursions between 15° and 30°C (59° and 86°F) that are experienced in pharmacies, hospitals, and warehouses. Provided the mean kinetic temperature remains in the allowed range, transient spikes up to 40°C (104°F) are permitted as long as they do not exceed 24 hours.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION
Chemical Name: SODIUM HYDROXIDE CAS #: 1310-73-2

Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
	ppm	mg/m ³	ppm	mg/m ³				

OSHA	USA	N/L	2	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value (15 min)
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	2(1)	N/L	N/L	N/A	(1) Ceiling limit value
HSE	UK	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Austria	N/L	2 inhalable aerosol	N/L	4 inhalable aerosol	N/L	N/L	N/A	N/A
GESTIS	Belgium	N/L	2 (1)	N/L	N/L	N/L	N/L	N/A	(1) Additional indication "M" means that irritation occurs when the exposure exceeds the limit value or there is a risk of acute poisoning. The work process must be designed in such a way that the exposure never exceeds the limit value. For evaluation, the sampled period should be as short as possible. However, the sampled period shall be long enough to perform a reliable measurement. The measured result shall be related to the considered period.
GESTIS	Canada - Ontario	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Canada - Quebec	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Denmark	N/L	2	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Finland	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	France	N/L	2	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Hungary	N/L	1	N/L	2 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Ireland	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) 15 minutes reference period
GESTIS	Japan (JSOH)	N/L	2 (1)	N/L	N/L	N/L	N/L	N/A	(1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day
GESTIS	Latvia	N/L	0.5	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Norway	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	China	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value

GESTIS	Poland	N/L	0.5	N/L	1(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Romania	N/L	1	N/L	3 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	N/L	N/L	N/L	2	N/L	N/L	N/A	N/A
GESTIS	South Africa	N/L	N/L	N/L	4 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	South Africa Mining	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	South Korea	N/L	N/L	N/L	2 (1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Spain	N/L	2	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Sweden	N/L	1 (1)	N/L	2 (1)(2)	N/L	N/L	N/A	(1) Inhalable fraction (2) 15 minutes average value
GESTIS	Switzerland	N/L	2 inhalable aerosol	N/L	2 inhalable aerosol	N/L	N/L	N/A	N/A

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
PHYSICAL STATE

Solid

DESCRIPTION

White or practically white. Can be fused masses, small pellets, flakes, sticks, or powder form. Is hard and brittle and shows a crystalline fracture. Exposed to the air, it rapidly absorbs carbon dioxide and moisture. Deliquescent.

SOLUBILITY

Freely soluble in water and in alcohol.

ODOR

Odorless

FLAMMABILITY

May be combustible at high temperature

AUTO-IGNITION TEMPERATURE

Not available

BOILING POINT

1390 °C, 2534 °F

DECOMPOSITION TEMPERATURE

Not available

EVAPORATION RATE

Not available

EXPLOSIVE LIMIT

Not available

FLASH POINT

Not available

log P (OCTANOL-WATER)

Not available

LOWER FLAMMABLE/EXPLOSIVE LIMIT(S)

Not available

MELTING/FREEZING POINT

318 °C, 604.4 °F

PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	pH	14.0 (5%)
RELATIVE DENSITY (WATER = 1)	2.1300 g/cm ³ (20 °C)	SPECIFIC GRAVITY	2.13 (25°C)	UPPER FLAMMABLE/EXPLOSIVE LIMIT(S)	Not available
VAPOR DENSITY (AIR = 1)	> 1.0	VAPOR PRESSURE	Negligible	VISCOSITY	Not available

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established
CHEMICAL STABILITY	Stable under recommended storage conditions
INCOMPATIBLE MATERIALS	Strong oxidants, Acids, Organic halogen compounds, Nitromethane, Aluminum, Magnesium, Tin, Zinc, Metal, Brass
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of sodium oxide, carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.
HAZARDOUS POLYMERIZATION	Will not occur
POSSIBILITY OF HAZARDOUS REACTION	Not established
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): 2000 Dermal: Rabbit LD50: (mg/kg): 1350 Inhalation: Rat: LC50: (mg/L/4hr): Not available
SKIN CORROSION/IRRITATION	Rabbit: 500 mg/24hr: Severe
SERIOUS EYE DAMAGE/EYE IRRITATION	Rabbit: 50ug/24hr: Severe
RESPIRATORY SENSITIZATION	Due to lack of data the classification is not possible.
SKIN SENSITIZATION	Due to lack of data the classification is not possible.
GERM CELL MUTAGENICITY	Due to lack of data the classification is not possible.
CARCINOGENICITY	OSHA SODIUM HYDROXIDE is not listed. NTP SODIUM HYDROXIDE is not listed. IARC SODIUM HYDROXIDE is not evaluated. California Proposition 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
ADDITIONAL CARCINOGENICITY INFORMATION	Based on available data, the classification criteria are not met.
REPRODUCTIVE TOXICITY	Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Based on available data, the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Based on available data, the classification criteria are not met.

ASPIRATION HAZARDS

Based on available data, the classification criteria are not met.

SIGNS AND SYMPTOMS OF EXPOSURE
ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

The ingestion of caustic alkalis causes immediate burning pain in the mouth, throat, substernal region, epigastrium and the lining membranes become swollen and detached. There is dysphagia, hypersalivation, vomiting with vomitus becoming blood-stained, diarrhea, shock; abdominal pain, asphyxia due to oedema of the glottis, circulatory failure, oesophageal or gastric perforation, peritonitis, pneumonia; caustic alkalis on contact with the skin can produce full thickness burns leading to extensive damage; alkali burns to the eyes cause conjunctival oedema and corneal destruction; damage may be irreversible.

POTENTIAL HEALTH EFFECTS
Inhalation

Severe irritant. Effects from inhalation of dust or mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure.

Ingestion

Corrosive! Swallowing may cause severe burns of mouth, throat and stomach. Severe scarring of tissue and death may result.

Skin

Corrosive! Contact with skin can cause irritation or severe burns and scarring, depending on the severity of exposure.

Eyes

Corrosive! Causes irritation of eyes, and with greater exposure it can cause burns that may result in permanent impair of vision, even blindness.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

EC50: 48 Hr: Crustacea: Daphnia (mg/L): 40.38

LC50: 96 Hr: Fish: Oncorhynchus mykiss (mg/L): 45.5

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

PERSISTENCE AND DEGRADABILITY

Not available

BIOACCUMULATIVE POTENTIAL

Not available

MOBILITY IN SOIL

Freely soluble in water

111g/100g of water

OTHER ADVERSE EFFECTS

Harmful to aquatic life.

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME

SODIUM HYDROXIDE

UN NUMBER

1823

CLASS	8
PACKING GROUP	II
AUSTRALIA	
HAZCHEM	2W
EU	
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	Not Listed
ENVIRONMENTAL HAZARDS	Not available
SPECIAL SHIPPING INFORMATION	Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know			California Prop 65
			Appendix A	Appendix B	Pennsylvania	New Jersey	Massachusetts	
SODIUM HYDROXIDE 1310-73-2	X	N/L	N/L	N/L	X	X	X	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemicals
SODIUM HYDROXIDE 1310-73-2	N/L	Listed as Schedule 6	Listed as Category III	Listed	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
SODIUM HYDROXIDE 1310-73-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL AGREEMENT Not applicable

SECTION 16: OTHER INFORMATION

REFERENCES Available upon request

ABBREVIATIONS AND ACRONYMS

ACGIH - American Conference of Governmental Industrial Hygienists; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **CAESAR** – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; **CAS** – Chemical Abstract Service; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **EC50** – Effective Concentration, 50%; **EPA** – Environmental Protection Agency; **GHS** – Global Harmonized System; **HMIS** – Hazardous Materials Information System; **HSE** – Health and Safety Executive; **HSIS** – Hazardous Substances Information System; **IARC** – International Agency for Research on Cancer; **IDLH** - Immediately Dangerous to Life or Health; **IRFMN** – Ready Biodegradability Model; **ISS** – Istituto Superiore Sanità; **LC50** – Lethal Concentration, 50%; **LD50** – Lethal Dose, 50%; **MSHA** - Mine Safety and Health Administration; **NIOSH** – National Institute for Occupational Safety and Health; **NTP** – National Toxicology Program; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **QSAR** – Quantitative Structure-activity relationship; **REL** - Recommended Exposure Limit; **SARA** – Superfund Amendments and Reauthorization Act; **STEL** – Short Term Exposure Limit; **TLV** – Threshold Limit Value; **TWA** – Time Weighted Average; **WHMIS** – Workplace Hazardous Materials Information System

LAST REVISION

01/2025

SUPERSEDES

09/2023

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.