

PAGE #:1 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:2 REV Date :08/13/2026
DOCUMENT # : F/RPI/QC 7.7.3-02-00	PRODUCT NAME: Sodium Hydroxide	RPI ITEM NO: S24000	

SECTION 1 - CHEMICAL IDENTIFICATION

PRODUCT NAME: Sodium Hydroxide
 RPI CATALOG #: S24000
 SUPPLIER'S NAME: Research Products International Corp.
 SUPPLIERS ADDRESS: 410 N Business Center Drive Mount Prospect, IL 60056
 EMERGENCY CONTACT: 1-800-424-9300
 OTHER INFORMATION: 847-635-7330

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H290	Corrosive to metals	Category 1
H314	Skin corrosion/irritation	Category 1
H318	serious eye damage	Category 1
H402	Acute aquatic toxicity	Category 3

2.2 GHS Label elements, including Hazard and Precautionary Statement(s)

Pictogram



Signal word: Danger

Hazard statement(s)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage
H402	Harmful to aquatic life.

Prevention, Response, Storage and Disposal Precautionary Statement(s)

P234	Keep only in original container.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling
P273	Avoid release to the environment
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

PAGE #:2 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:2 REV Date :08/13/2026
DOCUMENT # : F/RPI/QC 7.7.3-02-00	PRODUCT NAME: Sodium Hydroxide	RPI ITEM NO: S24000	

P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant stainless steel container with a resistant inner Liner.
P501	Dispose of contents/ container to an approved waste disposal plant.

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number: 1310-73-2
EINECS Number: 215-185-5
Formula: NaOH
Molecular Weight: 40.00 g/ml

SECTION 4 - FIRST-AID MEASURES

4.1 Description of first aid measures

General advice: Consult a doctor and show this safety data sheet.

- If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture: Sodium oxides.

5.3 Precautions for fire-fighters: Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

PAGE #:3 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:2 REV Date :08/13/2026
DOCUMENT # : F/RPI/QC 7.7.3-02-00	PRODUCT NAME: Sodium Hydroxide	RPI ITEM NO: S24000	

5.4 Further information: no data available

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

6.2 Environmental precautions: Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up: Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections: For required PPE see section 8. For disposal see section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling:

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Store at room temperature.

7.3 Specific end use(s): Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	NaOH	NaOH	NaOH	NaOH	NaOH	NaOH
CAS-No	1310-73-2	1310-73-2	1310-73-2	1310-73-2	1310-73-2	1310-73-2
Value	TWA	C		c	Upper Respiratory Tract irritation Eye irritation Skin irritation	c
Control parameters	2.000000 mg/m3	2.000000 mg/m3	Remarks Upper Respiratory Tract irritation Eye irritation Skin irritation	2 mg/m3		2.000000 mg/m3
Basis	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for			USA. ACGIH Threshold Limit Values (TLV)		USA. NIOSH Recommended Exposure Limits

PAGE #:4 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:2 REV Date :08/13/2026
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	Air Contaminants					
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- ❖ **ACGIH:** American Conference of Governmental Industrial Hygienists.
- ❖ **OSHA:** Occupational Safety and Health Administration.
- ❖ **NIOSH IDLH:** The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health.

8.2 Exposure Controls

- i. **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. **Control of environmental exposure:** Do not let product enter drains

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White Pellets	Vapor Pressure	No Data Available
Odor	Odorless	Vapor Density	No Data Available
Odor Threshold	No Data Available	Relative Density	2,1300 g/cm3
pH (50g/l @ 25 ° C)	13 - 14	Water Solubility	Soluble
Melting / Freezing Point	318 ° C (604 °F)	Partition Coefficient	No Data Available
Initial Boiling Point Range	No Data Available	Auto-Ignition Temperature	No Data Available
Flash Point	No Data Available	Decomposition Temperature	No Data Available
Evaporation Rate	No Data Available	Viscosity	No Data Available
Flammability (Solid, Gas)	No Data Available	Explosive Properties	No Data Available
Upper / Lower Flammability Or Explosive Limits	No Data Available	Oxidizing Properties	No Data Available

PAGE #:5 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:2 REV Date :08/13/2026
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SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under recommended transport or storage conditions.

Conditions to Avoid: No Data Available

Incompatible Materials: Strong oxidizing agents, Strong acids, Organic materials

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral	LD50 Dermal	LD50 Inhalation
Not Listed	1350 mg/kg (Rabbit)	Not Listed

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50	Toxicity to daphnia and other aquatic invertebrates
Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h	Immobilization EC50 - Daphnia (water flea) - 40.38 mg/l - 48 h

Persistence and degradability/ Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Chronic Toxicity: There are no known carcinogenic chemicals in this product

SECTION 13 - DISPOSAL CONSIDERATIONS

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

	UN#	Proper Shipping Name	Hazard Class	Packaging Group
DOT	1823	Sodium Hydroxide SOLID	8	II
TDG	1823	Sodium Hydroxide SOLID	8	II
IATA	1823	Sodium Hydroxide SOLID	8	II
IMDG/IMO	1823	Sodium Hydroxide SOLID	8	II

SECTION 15 - REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA	DSL	NDSL	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Listed	Listed	-	-	-	Listed	Listed	Listed	Listed	KE-31487 Listed

PAGE #:6 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:2 REV Date :08/13/2026
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USA FEDERAL REGULATION

TSCA 12(b): Not Applicable

SARA 313: Not Applicable

SARA 311/312 HAZARDOUS CATEGORIZATION: Not Applicable

OSHA: Not Applicable

California Proposition 65: This product does not contain any Proposition 65 chemicals.

Clean Water Act/ Clean Air Act

CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Listed	1000 lb	-	-

CERCLA: This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	-

HMIS Rating

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
3		0	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
3	0	0

STATE RIGHT TO KNOW

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Listed	Listed	Listed	-	Listed

US DEPARTMENT OF TRANSPORTATION

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
Yes	No	No

U.S. DEPARTMENT OF HOMELAND SECURITY: This product does not contain any DHS chemicals.

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

This SDS complies with the requirements of Regulation (EC).

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Research Products International Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. This product is sold for laboratory research and development purposes use only.