



Boston BioProducts, Inc

425 Fortune Blvd.

Milford, MA 01757

SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

- 1.1** PRODUCT NAME: Sodium Hydroxide (1 N)
CATALOG #: BPS-203
- 1.2** RECOMMENDED USE: Research use or further manufacturing
- 1.3** COMPANY IDENTIFICATION: Boston BioProducts, Inc.
425 Fortune Blvd. Milford, MA 01757
- 1.4** EMERGENCY CONTACT: 1-800-535-5053
TOLL FREE NUMBER: 1-888-881-8691

SECTION 2 – HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

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

| | |
|--|------------|
| Corrosive to Metals | Category 1 |
| Skin corrosion/ irritation | Category 1 |
| Serious eye damage/ eye irritation | Category 1 |
| Hazardous to the aquatic environment, chronic hazard | Category 3 |

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



Signal word: Warning

Hazard statement(s):

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary Statements:

| | |
|------|--|
| P234 | Keep only in original container. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |



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| | |
|--------------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| H290 | May be corrosive to metals. |
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P363 | Wash contaminated clothing before reuse. |
| P390 | Absorb spillage to prevent material damage. |
| P405 | Store locked up. |
| P406 | Store in corrosive resistant/... container with a resistant inner liner. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

Composition: 1 N Sodium Hydroxide (Pellets).

| Component | CAS Number | Concentration |
|----------------------------|------------|---------------|
| Sodium Hydroxide (Pellets) | 1310-73-2 | 4.00 % |
| WFI Water | 7732-18-5 | Rest |

SECTION 4 - FIRST-AID MEASURES

4.1 Description of first aid measures

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

- i. **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. **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.
- iii. **In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. **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: Carbon oxides, Nitrogen oxides (NOx).

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



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5.4 Further information:

| Health | Flammability | Instability | Physical Hazards |
|--------|--------------|-------------|------------------|
| 2 | 0 | 0 | 0 |

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. Keep in a dry place.

7.3 Specific end use(s): Use in a laboratory fume hood where possible.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

Exposure Guidelines

| Component | ACGIH TVL | OSHA PEL | NIOSH IDLH | MEXICO OEL (TWA) |
|----------------------------|---------------------|---------------------|---------------------|------------------|
| Sodium Hydroxide (Pellets) | 2 mg/m ³ | 2 mg/m ³ | 2 mg/m ³ | - |

Legend

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

NIOSH IDLH: NIOSH National Institute for Occupational Safety and 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



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- 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 | Clear, Colorless, Liquid | Vapor Pressure | No Data Available |
| Odor | No Data Available | Vapor Density | No Data Available |
| Odor Threshold | No Data Available | Relative Density | 2.13 g/cm ³ |
| pH | No Data Available | Water Solubility | 1,090 g/l |
| Melting / Freezing Point | 604 °F / 318 °C | Partition Coefficient | No Data Available |
| Initial Boiling Point Range | 2,534 °F / 1,390 °C | 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 |

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Hazardous Decomposition Products/Hazardous Polymerization: No data available

Incompatibilities: Acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------|-------------------------|-----------------------|------------------------|
| Sodium Hydroxide Pellets | 140 - 340 mg/kg (Rat) | 1350 mg/kg (Rabbit) | - |



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Toxicologically Synergistic Products: The environmental impact of this product has not been fully investigated

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: Risk of serious damage to eyes, irritating to skin

Carcinogenicity: No data available

SECTION 12 - ECOLOGICAL INFORMATION

Eco Toxicity: The environmental impact of this product has not been fully investigated

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|--------------------------|------------------|---|---------------------------------------|--|
| Sodium Hydroxide Pellets | - | LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss) | (Photobacterium phosphoreum): 22 mg/l | (Ceriodaphnia (water flea)): 40.4 mg/l |

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of BPT and vPvB assessment: No data available

Acute Toxicity: 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

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component | RCRA – U Series Wastes | RCRA – P series Wastes |
|-----------|------------------------|------------------------|
| - | - | - |

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

| DOT | TDG | IATA | IMDG/IMO |
|--|--|--|--|
| UN Number: 1823 Name: Sodium Hydroxide Hazard Class: 8 Packing Group : II | UN Number: 1823 Name: Sodium Hydroxide Hazard Class: 8 Packing Group : II | UN Number: 1823 Name: Sodium Hydroxide Hazard Class: 8 Packing Group : II | UN Number: 1823 Name: Sodium Hydroxide Hazard Class: 8 Packing Group : II |



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SECTION 15 - REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

| TCA | DSL | NDSL | ELINCS | NLP | PICCS | ENCS | AICS | CHINA | KECL |
|--------|-----|------|--------|-----|--------|--------|--------|--------|--------|
| Listed | - | - | Listed | - | Listed | Listed | Listed | Listed | Listed |

USA FEDERAL REGULATIONS

SARA 311/312 HAZARDOUS CATEGORIZATION

| Acute Health Hazard | Chronic Health Hazard | Fire Hazard | Sudden Release of Pressure Hazard | Reactive Hazard |
|---------------------|-----------------------|-------------|-----------------------------------|-----------------|
| Yes | No | No | No | Yes |

Clean Water Act/ Clean Air Act: No Data Available

Clean Air Act: Not Applicable

California Proposition 65: This product contains no Proposition 65 chemicals.

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

| Component | Hazardous Substance RQs | CERCLA EHS RQs |
|--------------------------|-------------------------|----------------|
| Sodium Hydroxide Pellets | 1000 lbs | - |

HMIS Rating

| Health hazard | Chronic Health Hazard | Flammability | Physical Hazard |
|---------------|-----------------------|--------------|-----------------|
| 2 | 0 | 0 | 2 |

NFPA Rating

| Health hazard | Fire Hazard | Reactivity Hazard |
|---------------|-------------|-------------------|
| 2 | 0 | 2 |

STATE RIGHT TO KNOW

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



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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. Boston BioProducts, Inc shall not be held liable for any damage resulting from handling or from contact with the above product. This product is sold for laboratory research and development purposes use only.

Revised: 2025