SAFETY DATA SHEET

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1 Product identifiers

Product name : 1.0 N Sodium Hydroxide 100mL

Product Number : 02100-NAOH
Brand : MicroSolv™ Technology

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : MicroSolv Technology
9158 Industrial Blvd
Leland NC 28451
UNITED STATES

Telephone : +1 732 380-8900
Fax : +1 910 769-9435

1.4 Emergency telephone number

Emergency Phone # : 1-800-222-1222
Poisoning or chemical exposure

SECTION 2: Hazards identification

2.1 **Classification of the substance or mixture** 2.1. Classification of the substance or mixture

GHS-US classification Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation Full text of H statements : see section 16

2.2 **GHS Label elements, including precautionary statements** Not classified as a hazardous chemical. Other hazards not contributing to the classification: None

Skin corrosion/irritation Category 1B H314 Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS US) : P260 - Do not breathe mist, spray, vapors.
P264 - Wash exposed skin thoroughly after handling.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
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.
P310 - Immediately call a poison center or doctor/physician.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to comply with local, state and federal regulations.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3 **Hazards not otherwise classified (HNOC) or not covered by GHS** - none

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Name		Product identifier	%	GHS-US classification
Water	(CAS-No.)	7732-18-5	96.08	Not classified
Sodium Hydroxide	(CAS-No.)	1310-73-2	3.92	Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled
Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea,Headache, Shortness of breath.;

4.3 Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
If in laboratory setting, follow laboratory fire suppression prcedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

5.2 Special hazards arising from the substance or mixture

Not flammable.

5.3 Advice for firefighters

Not flammable.

5.4 Further information

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Gloves. Safety glasses.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4 Reference to other sections

Exposure controls and
personal protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Wear protective equipment. Absorb spillage to prevent material damage due to corrosiveness to metal. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Do not mix with acids.Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use.
Incompatible products : metals. Strong acids.
Packaging materials : Do not store in corrodable metal.

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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

1310-73-2, Sodium Hydroxide, OSHA PEL TWA 2 mg/m3
1310-73-2, Sodium Hydroxide, ACGIH TLV TWA 2 mg/m3

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The glove material has to be impermeable and resistant to the product/ substance/the preparation being handled/used.

Eye protection: Safety glasses with wide shields or goggles.

Respiratory protection

No special protective equipment required in normal conditions. Use suitable respiratory protective device when high concentrations are present.

Control of environmental exposure

Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	Odorless

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c)	Odour Threshold	No data available
d)	pH	Alkaline
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	Not Determined
n)	Water solubility	completely miscible
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid

Acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc
Hazardous decomposition products:sodium oxides, hydrogen. Carbon oxides (CO, CO2).

10.6 Hazardous decomposition products
Sodium oxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Not Classified

LD50 dermal rabbit 337500 mg/kg

ATE US (dermal) 337500 mg/kg body weight

Skin corrosion / irritation
Causes skin irritation.

Serious eye damage / eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity
No data available

Carcinogenicity : Not classified

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: ZC0110000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

No data available

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12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Avoid release to the environment.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

SARA 311/312 (Specific toxic chemical listings
None of the ingredients listed

SARA 313 Components
None of the ingredients listed

RCRA Hazards
None of the ingredients listed

TSCA (Toxic Substances Control Act)
All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)
1310-73-2 Sodium Hydroxide 1000 lb

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California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Further 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. 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. MicroSolv™ Technology and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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