SAFETY DATA SHEET

2.5% NaOH Reagent A – NAOH25

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	2.5% NaOH Reagent A
Catalogue number:	NAOH25
CAS No.:	1310-73-2
Other means of identification:	2.5% Sodium Hydroxide

1.2 Recommended use of the chemical and restrictions on use

Recommended use:	In vitro diagnostic
Restrictions on use:	Not applicable

1.3 Manufacturer details

Company:	IMMY (Immuno-Mycologics, Inc.)
Address:	2701 Corporate Centre Drive Norman, OK 73069 U.S.A
Telephone Number:	+1-405-360-4669
Emergency Telephone Number:	+1-800-654-3639
Email:	sds@immy.com

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Hazard Classes and hazard categories	Hazard Statements
Corrosive to metals; Category 1	H290
Skin Corrosion; Category 1A	H314
Serious Eye Damage; Category 1	H318

2.2 Label Elements

Labeling in accordance with 29 CFR 1910.1200 (OSHA HCS)

Hazard Pictograms

Signal word: Danger

Hazard Statements	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Precautionary Statements	
P260	Do not breathe dusts or mists.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contained clothing. Rinse with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
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/doctor/physician.
P321	Specific treatment (see section 4)
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified (HNOC): No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS/EC No.	Concentration (%)
Sodium Hydroxide Pellets	CAS: 1310-73-2 EC: 215-185-5	1.00-2.99%

SECTION 4: FIRST AIDE MEASURES

4.1 General Information:

Never give anything by mouth to an unconscious person. Change contaminated clothing.

In case of inhalation:

Remove victim to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.

In case of skin contact:

Take off contaminated clothing. Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Immediately call a poison center or doctor/physician.

In case of eye contact:

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.

In case of ingestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2 Most Important symptoms/effects, acute and delayed

May cause severe burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed, if necessary

No additional information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Foam. Dry Powder. Carbon Dioxide. Water Spray. Sand.

Unsuitable extinguishing media:

Do not use a heavy water stream.

5.2 Specific hazards arising from the chemical

No data available.

5.3 Special protective equipment and precautions for fire-fighters

Protective equipment:

Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighting Instructions:

Use water spray or fog for cooling exposed containers. Exercise cautions when fighting any chemical fire. Prevent fire-fighting water from entering environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Protective Equipment:

Safety Glasses. Gloves. Protective clothing. Head/neck protection. Respiratory protection.

Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area.

6.2 Environmental precautions

Prevent entries 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 absorbent material as soon as possible and dispose of as hazardous waste. Collect spillage. Store away from other materials.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, or spray.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures:

Comply with applicable regulations

Storage conditions:

Keep only in the original container in a cool, well ventilated place away from incompatible materials.
Keep container closed when not in use.
Storage temp: 15-30°C.

Incompatible products and materials:

Strong oxidizing agents

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Sodium Hydroxide (1310-73-2)		
ACGIH	ACGIH TWA (mg/m^3)	2.000
OSHA	OSHA PEL (TWA) (mg/m^3)	2.000
NIOSH	NIOSH REL (TWA) (mg/m^3)	2.000

8.2 Appropriate engineering controls

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

8.3 Individual protection measures/Personal protective equipment

Skin and body protection:

Wear a chemical resistant apron (according to the concentration and amount of dangerous substance), protective clothing, and gloves

Eye protection:

Wear tightly fitting chemical goggles or face shield.

Respiratory protection:

Wear appropriate mask.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

(a)	Appearance	
	Physical state:	Liquid
	Color:	Blue
(b)	Odor:	None
(c)	Odor threshold:	No data available

Safety relevant basic data

(d)	pH:	No data available
(e)	Melting/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

(i)	Flammability (solid, gas):	Non-flammable
(j)	Upper/lower flammability or explosive limits:	No data available
(k)	Vapor pressure:	No data available
(l)	Vapor density:	No data available
(m)	Relative density:	1.02 g/cm3 at 20 °C
(n)	Solubility(ies)	No data available
(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

9.2 Other Information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decompositions products

Hazardous decomposition products formed under fire conditions. – Sodium oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Hydroxide (1310-73-2)	No data available	No data available	No data available

Irritant and corrosive effects:

Primary irritation to the skin:

Causes severe skin burns

Irritation to the eyes:

Causes severe eye damage

Irritation to the respiratory tract:

Not classified

Respiratory or skin sensitization:

Not classified

Specific target organ toxicity – single exposure:

Not classified

Specific target organ toxicity – repeated exposure:

Not classified

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA

Germ cell mutagenicity

Not classified

Reproductive toxicity

Not classified

Aspiration hazard
Not classified

Other adverse effects
Not classified

Additional information
No additional information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fish Toxicity:
No data available.

Daphnia toxicity:
No data available.

Algae toxicity:
No data available.

Bacteria toxicity:
No data available.

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 Other adverse effects
Avoid release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Appropriate disposal/ Product

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents to comply with local, state and federal regulations.

Appropriate disposal/ Package

Dispose in a safe manner in accordance with local/national regulations. Dispose of container to comply with local, state and federal regulations.

Additional information

Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (DOT)

Transport documentation description:

UN-No.:

UN1824

Proper shipping name:

Sodium hydroxide solution

Transport hazard class(es):

8 – Class 8 – corrosive material 49 CFR 173.136

Packaging group:

III

Environmental hazards:

Avoid release into the environment.

Transport in bulk (according to Anex II of MARPOL 73/78 and the IBC Code):

No data available.

Special precautions:

No additional data available.

14.2 Sea transport (IMDG)

UN-No.:
UN1824

Proper shipping name:
Sodium hydroxide solution

Transport hazard class(es):
8 – Class 8 – corrosive material 49 CFR 173.136

Packaging group:
III

EMS-No:
F-A, S-B

SECTION 15: REGULATORY INFORMATION

15.1 US Federal regulations

SARA 311/312 Hazard Classes:
Acute Health Hazard

SARA 313 Components:
This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title II, Section 313.

15.2 US State regulations

California Proposition 65:
This product does not contain any substance known to the state of California to cause cancer, developmental and/or reproductive harm.

15.3 International regulations

Canada:
No additional information available.

EU-Regulations
No additional information available.

National regulations:
No additional information available.

SECTION 16: OTHER INFORMATION

16.1 Revision date

12/27/2018

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state 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. Immuno-Mycologics, Inc. (IMMY) shall not be held liable for any damage resulting from handling.