SAFETY DATA SHEET



Revision Date 14-Aug-2024	WAI1 - AGHS - OSHA	Revision Number 5
1. IDENTIFICATION OF THE	E SUBSTANCE/PREPARATION AND OF THE COMPAN	Y/UNDERTAKING
Product Identifier		
Product Name	SAOB TM Component A	
Product No	941609A	
Pure substance/mixture	Mixture	
Contains Sodium Hydroxide		
Relevant identified uses of the su	ubstance or mixture and uses advised against	
Recommended Use	Use as laboratory reagent	
Uses advised against	No Information available	
Manufacturer, Importer, Supplier	Thermo Fisher Scientific© Water and Lab Products 22 Alpha Road Chelmsford, MA 01824, USA 1-978-232-6000	
Emergency Telephone	24 Hour Emergency Phone Number CHEMTREC® Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-527-3887 (collect calls accepted)	
E-mail address	wlp.techsupport@thermofisher.com	
Made in	USA	

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Contains Sodium Hydroxide

Emergency Overview			
Danger			
Hazard Statements Causes severe skin burns and eye damage			
L P			
Appearance Clear	Physical State Solution	Odor	None

Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Response

Eyes

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

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

None

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No information available

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Water	7732-18-5	75 - 90%
Sodium Hydroxide	1310-73-2	1 - 10%
Ethylenediaminetetraacetic Acid, Disodium Salt	139-33-3	1 - 10%
(EDTA [Na2C10H14O82])		

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General Advice	Use first aid treatment according to the nature of the injury. Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.	
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.	
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. In case of skin reactions, consult a physician.	
Inhalation	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control center immediately.	
Self-Protection of the First Aider	Use personal protective equipment as required. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	
Most important symptoms and effects, both acute and delayed		
Most important symptoms and effects	Causes burns by all exposure routes	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Treat symptomatically	

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> CO₂, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media

No information available

Specific Hazards Arising from the Chemical

No information available.

Explosion Data Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Environmental Precautions	Use personal protective equipment as required. For further specification, refer to section 8 of the SDS. Evacuate personnel to safe areas. Vapors may accumulate to form explosive concentrations. See Section 12 for additional Ecological Information.		
Methods and Material for Containment and Cleaning Up_			
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.		
7. HANDLING AND STORAGE			
Precautions for Safe Handling			

Handling	To avoid risks to human health and the environment, comply with the instructions for use Wear personal protective equipment/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Ensure adequate ventilation, especially in confined areas
Conditions for Safe Storage, Inclu	ding any Incompatibilities

Storage	Corrosives area Keep containers tightly closed in a dry, cool and well-ventilated place
Incompatible Products	No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium Hydroxide	Ceiling: 2 mg/m ³	(Vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2		TWA: 2 mg/m ³	Ceiling: 2 mg/m ³

Legend

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH - National Institute for Occupational Safety and Health IDLH - Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location	
Individual protection measures, such as personal protective equipment		
Eye/face Protection	Wear safety glasses with side shields (or goggles).	
Skin and Body Protection	Wear protective gloves/protective clothing.	
Respiratory Protection	None under normal use conditions. In case of inadequate ventilation wear respiratory protection.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solution
Appearance	Clear
Odor	None
Odor Threshold	No information available
рН	13.5
PH Range	12.5 - 14.0

Property_	Value
Melting point/freezing point	No inf
Boiling Point/Range	~ 100
Flash Point (High in °C)	N/A
Evaporation Rate	No inf
Flammability (solid, gas)	No inf
Flammability Limit in Air	
Upper flammability limit:	No inf
Lower flammability limit:	No inf
Vapor pressure	No inf
Vapor Density	No inf
Specific Gravity	No inf
Water Solubility	Solub
Solubility in other solvents	No inf
Partition coefficient	No inf
Autoignition Temperature	-
Decomposition Temperature	No inf
Kinematic viscosity	No inf
Dynamic viscosity	No inf
Explosive Properties	No inf
Oxidizing Properties	No inf
Other Information	
Softening Point	No inf
Molecular Weight	No inf
VOC Content(%)	No inf

<u>Values</u> No information available ~ 100 °C / 212 °F N/A No information available No information available

No information available No information available No information available No information available No information available Soluble No information available -No information available No information available

No information available No information available No information available No Information available No information available Remarks • Method

Density Bulk Density

10. STABILITY AND REACTIVITY

<u>Reactivity</u> No Information available

<u>Chemical Stability</u> Stable under normal conditions

Possibility of Hazardous Reactions None under normal processing

<u>Conditions to Avoid</u> Extremes of temperature and direct sunlight.

Incompatible Materials

No information available

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No information available
Causes serious eye damage
Causes burns
No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	LD50 > 90 mL/kg (Rat)	-	-
7732-18-5			
Sodium Hydroxide	LD50 = 325 mg/kg (Rat)	LD50 = 1350 mg/kg (Rabbit)	-
1310-73-2			
Ethylenediaminetetraacetic Acid, Disodium	LD50 = 2 g/kg (Rat)	-	-
Salt (EDTA [Na2C10H14O82])			
139-33-3			

Information on Toxicological Effects

Symptoms

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

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

(b) skin corrosion/irritation; Serious eye damage/eye irritation Sensitization	Category 1. A. Risk of serious damage to eyes. No information available				
Mutagenic Effects	No inform	nation available			
Carcinogenicity	The table	e below indicates wh	ether each agency ha	as listed any ingredie	nt as a carcinogen.
Component CA	S No	IARC	NTP	ACGIH	OSHA

Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	
Sodium Hydroxide	1310-73-2	Not listed	Not listed	Not listed	Not listed	
Ethylenediaminetetraacetic Acid, Disodium Salt (EDTA [Na2C10H14O82])	139-33-3	Not listed	Not listed	Not listed	Not listed	
Reproductive Effects	No inform	nation available				
STOT - single exposure STOT - repeated exposure Target Organs	No inform	No information available No information available None known.				
Aspiration hazard	No inform	No information available				
Numerical measures of toxicity - Product Information						
The following values are o ATEmix (oral) ATEmix (dermal)	alculated based on 3557 mg 16875 m	j/kg	GHS document .			

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Sodium Hydroxide	-	LC50: = 45.4 mg/L, 96h static	-
1310-73-2		(Oncorhynchus mykiss)	
Ethylenediaminetetraacetic Acid, Disodium Salt (EDTA	-	LC50: = 320 mg/L, 96h semi-static (Poecilia reticulata)	-
[Na2C10H14O82])		(Foecilia Teliculata)	
139-33-3			

Persistence and Degradability

Bioaccumulation/Accumulation

No information available

Mobility

Will likely be mobile in the environment due to its water solubility

Component	log Pow
Ethylenediaminetetraacetic Acid, Disodium Salt (EDTA	-4.3
[Na2C10H14O82])	
139-33-3	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS			
Waste treatment methods			
Waste Disposal Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations.		

Contaminated Packaging Dispose of this container to hazardous or special waste collection point.

Component	CAWAST
Sodium Hydroxide	Toxic
1310-73-2	Corrosive

14. TRANSPORT INFORMATION

DOT UN-No Proper Shipping Name Hazard Class Packing Group Reportable Quantity (RQ): Special Provisions Shipping Description Emergency Response Guide Number	UN1824 SODIUM HYDROXIDE SOLUTION 8 II (Sodium Hydroxide : RQ (kg)= 454.00) B2, IB2, N34, T7, TP2 UN1824, SODIUM HYDROXIDE SOLUTION, 8, II 154
ICAO UN-No Proper Shipping Name Hazard Class Packing Group Special Provisions Description	UN1824 SODIUM HYDROXIDE SOLUTION 8 II A3 UN1824, SODIUM HYDROXIDE SOLUTION, 8, II
IATA UN-No Proper Shipping Name Hazard Class Packing Group ERG Code Special Provisions Description	UN1824 SODIUM HYDROXIDE SOLUTION 8 II 8L A3, A803 UN1824, SODIUM HYDROXIDE SOLUTION, 8, II
IMDG/IMO UN-No Proper Shipping Name Hazard Class Packing Group EmS No. Description	UN1824 SODIUM HYDROXIDE SOLUTION 8 II F-A, S-B UN1824, SODIUM HYDROXIDE SOLUTION, 8, II

15. REGULATORY INFORMATION

International Inventories	
United States of America Inventory	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

USINV/ TSCA - United States Toxic Substances Control Act Section 8(b) Inventory CANINV/ DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances ENCS - Japanese Existing and New Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb	-	-	Х

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) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355)

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Sodium Hydroxide 1310-73-2	1000 lb	-	1000 lb 454 kg

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			
Sodium Hydroxide	X	Х	Х
1310-73-2			

U.S. EPA Label Information

No information available

16. OTHER INFORMATION			
Prepared By	Regulatory Affairs		
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Prepared For	Thermo Fisher Scientific Inc.©

Issue Date No information available

Revision Date 14-Aug-2024

Reason for revision

SDS sections updated.

<u>Disclaimer</u>

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End of Safety Data Sheet