

# SAFETY DATA SHEET

Revision Date 18-May-2015 WAI1 - AGHS - OSHA Revision Number 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name Alkaline Reagent

Product Number(s) 951011

Pure substance/mixture Mixture

Contains Sodium Hydroxide

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

Recommended Use Use as laboratory reagent

Uses advised against No Information available

Manufacturer/Supplier Thermo Fisher Scientific©

Water and Lab Products

22 Alpha Road

Chelmsford, MA 01824, USA

1-978-232-6000

**E-mail address** info.water@thermo.com

Made in USA

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)

Product Number(s) 951011

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# 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**

### **Emergency Overview**

#### Danger

#### Hazard Statements

Causes severe skin burns and eye damage



Appearance Colorless

Physical State Liquid

Odor None

Safety data sheet available on request

### **Precautionary Statements**

Do not handle until all safety information has been read and understood.

### 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

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see supplemental instructions on the administration of antidotes on this label)

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

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

Wash contaminated clothing before reuse

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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Storage

Store locked up

#### Disposa

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

No information available

### Other Information

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May be harmful in contact with skin Harmful to aquatic life with long lasting effects Harmful to aquatic organisms

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	Trade Secret
Sodium Hydroxide	1310-73-2	40 - 50%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### 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. Obtain medical attention.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. If skin reactions occur, contact a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, obtain medical

attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a

physician or Poison Control Center immediately.

mouth-to-mouth method if victim ingested or inhaled the substance; induce 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/effects No information available

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **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

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protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Refer to Section 8. Evacuate personnel to safe areas. **Personal Precautions** 

**Environmental Precautions** Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in

Methods and Material for Containment and Cleaning Up

Prevent further leakage or spillage if safe to do so. **Methods for Containment** 

**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

Avoid breathing dust/fume/gas/mist/vapours/spray Ensure adequate ventilation, especially in confined areas

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place Storage

Store at room temperature in the original container

Keep away from direct sunlight

No information available **Incompatible Products** 

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

**Exposure Guidelines** 

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

### **Appropriate engineering controls**

**Showers Engineering Measures** 

> **Eyewash stations** Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face Protection** Wear chemical splash goggles. If splashes are likely to occur, wear:. Face-shield.

Wear protective gloves/clothing. **Skin and Body Protection** 

**Respiratory Protection** None required under normal usage. In case of inadequate ventilation wear respiratory

protection.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State** Liquid

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Remarks • Method

Colorless **Appearance** Odor None

**Odor Threshold** No information available pH Range No information available

**Property** Values

Melting point/freezing point No information available **Boiling Point/Range** ~ 100 °C / 212 °F

Flash Point (High in °C)

**Evaporation Rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density** No information available **Specific Gravity** No information available

**Water Solubility** soluble

Solubility in other solvents No information available Partition coefficient No information available

**Autoignition Temperature** 

No information available **Decomposition Temperature Kinematic Viscosity** No information available **Dynamic viscosity** No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

Other Information

No information available **Softening Point** No information available **Molecular Weight VOC Content(%)** No information available No Information available **Density Bulk Density** No information available

# 10. STABILITY AND REACTIVITY

### Reactivity

No Information available

### **Chemical Stability**

Stable under normal conditions

#### Possibility of Hazardous Reactions

None under normal processing

#### **Conditions to Avoid**

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

Inhalation No information available

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Eye Contact No information available

**Skin Contact** No information available

Ingestion No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Hydroxide	-	= 1350 mg/kg ( Rabbit )	-
1310-73-2			

### Information on Toxicological Effects

Symptoms No information available

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

Sensitization No information available

Mutagenic Effects No information available

Carcinogenicity No information available.

Reproductive Effects No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (dermal) 3375 mg/kg

# 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	-	45.4: 96 h Oncorhynchus mykiss	-
1310-73-2		mg/L LC50 static	

### Persistence and Degradability

No information available

# **Bioaccumulation/ Accumulation**

No information available

#### **Mobility**

No information available.

### 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

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regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Component	CAWAST
Sodium Hydroxide	Toxic
1310-73-2	Corrosive

# 14. TRANSPORT INFORMATION

DOT

**UN-No** UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group ||

Special Provisions B2, IB2, N34, T7, TP2

Shipping Description UN1824, Sodium hydroxide solution, 8, II

**Emergency Response Guide** 154

Number

TDG

UN-No UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group | |

**Description** UN1824, Sodium hydroxide solution, 8, II

MEX

**UN-No** UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group ||

**Description** UN1824, Sodium hydroxide solution, 8, II

**ICAO** 

**UN-No** UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group II
Special Provisions A3

**Description** UN1824, Sodium hydroxide solution, 8, II

**IATA** 

**UN-No** UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group II
ERG Code 8L
Special Provisions A3, A803

**Description** UN1824, Sodium hydroxide solution, 8, II

IMDG/IMO

**UN-No** UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group ||

EmS No. F-A, S-B

**Description** UN1824, Sodium hydroxide solution, 8, II

<u>RID</u>

UN-No UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group II
Classification Code C5

**Description** UN1824, Sodium hydroxide solution, 8, II

ADR/RID-Labels 8

<u>ADR</u>

**UN-No** UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group II
Classification Code C5
Tunnel restriction code (E)

**Description** UN1824, Sodium hydroxide solution, 8, II

ADR/RID-Labels 8

ADN

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group II
Classification Code C5

**Description** UN1824, Sodium hydroxide solution, 8, II

Hazard Labels 8 Limited Quantity 1 L

# 15. REGULATORY INFORMATION

**International Inventories** 

USINV Complies
CANINV Complies
EINECS/ELINCS Complies

**ENCS** Does not Comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

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 and Title 40n of the Code of Federal Regulations, Part 372.

# SARA 311/312 Hazardous

Categorization

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

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#### **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)

Component	Hazardous Substances RQs	CERCLA EHS RQs	RQ
Sodium Hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ

### U.S. State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

### State Right-to-Know

Component	New Jersey	Massachusetts	Pennsylvania
Sodium Hydroxide	X	X	X
1310-73-2			

# **U.S. EPA Label Information**

No information available

# **16. OTHER INFORMATION**

Environmental, Health and Safety Prepared By

**Prepared For** Thermo Fisher Scientific Inc.©

**Issue Date** No information available

18-May-2015 **Revision Date** 

**Expiration Date** SDS is valid 3 years from revision date. Contact wai.techservbev@thermofisher.com for

the latest revision.

Reason for revision Update to CLP Format

### **Disclaimer**

IMPORTANT: The information contained in this SDS is correct to the best of our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties of any kind as to the accuracy or completeness of the information contained herein or the merchantability or fitness of the product or this information for a particular purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. Product sales are subject to Thermo Fisher Scientifics standard terms and conditions of sale. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions, or is altered in any way. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable government requirements. Since conditions of use of the product are not under direct control of Thermo Fisher Scientific, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Thermo Fisher Scientific will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.

# **End of Safety Data Sheet**

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