

# SAFETY DATA SHEET

Revision Date 16-Feb-2016 WAI1 - AGHS - OSHA **Revision Number** 7

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

**Product Identifier** 

**Product Name** Ammonia LR

**Product No** AC4012-STAB

Pure substance/mixture Mixture

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

**Recommended Use** Use as laboratory reagent

No Information available Uses advised against

Manufacturer, Importer, Supplier Thermo Fisher Scientific©

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Product No AC4012-STAB **Document No.** 

# 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### **Label Elements**

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Colorless

Physical State Liquid

**Odor** Odorless

### **Precautionary Statements**

Do not handle until all safety precautions have been read and understood

### Hazards not otherwise classified (HNOC)

No information available

#### Other Information

No information available

Unknown Acute Toxicity

27 percent of the mixture consists of ingredient(s) of unknown acute toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	Trade Secret
Water	7732-18-5	60 - 70%	*
Potassium Sodium Tartrate	6381-59-5	20 - 30%	*
Diethylene Glycol	111-46-6	1 - 10%	*
Potassium Hydroxide	1310-58-3	<0.1%	*

<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. Take off

contaminated clothing and shoes immediately. In case of skin reactions, consult a

physician.

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**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms

occur.

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

physician or Poison Control Center immediately.

Protection of First-aiders

Use personal protective equipment. 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/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 protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions**Use personal protective equipment. For further specification, refer to section 8 of the SDS.

Evacuate personnel to safe areas.

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

low areas.

### 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

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

### Conditions for Safe Storage, Including any Incompatibilities

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

Store at room temperature in the original container

Keep away from direct sunlight

Incompatible Products

No information available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(Vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

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

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

Face-shield.

**Skin and Body Protection** Wear protective gloves/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 StateLiquidAppearanceColorlessOdorOdorless

Odor Threshold No information available

**PH Range** 6.5 - 9.5

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point/freezing pointNo information availableBoiling Point/Range100 °C / 212 °F

Flash Point (High in °C) N/A

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

Flammability Limit in Air

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

Water Solubility Soluble in water

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

**Autoignition Temperature** 

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content(%)
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

Eye Contact No information available

**Skin Contact** No information available

Ingestion No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water 7732-18-5	LD50 > 90 mL/kg (Rat)	-	-
Diethylene Glycol 111-46-6	LD50 = 12565 mg/kg (Rat)	LD50 = 11890 mg/kg ( Rabbit )	-
Potassium Hydroxide 1310-58-3	LD50 = 284 mg/kg (Rat)	-	•

# 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

Unknown Acute Toxicity 27 percent of the mixture consists of ingredient(s) of unknown acute toxicity

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

ATEmix (oral) 7300 mg/kg

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

27% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Diethylene Glycol	-	LC50: = 75200 mg/L, 96h	EC50: = 84000 mg/L, 48h (Daphnia
111-46-6		flow-through (Pimephales promelas)	magna)
Potassium Hydroxide	-	LC50: = 80 mg/L, 96h static	-
1310-58-3		(Gambusia affinis)	

### Persistence and Degradability

No information available

#### **Bioaccumulation/ Accumulation**

No information available

### **Mobility**

.

Component	log Pow
Diethylene Glycol 111-46-6	-1.98
Potassium Hydroxide 1310-58-3	0.83

### 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** Improper disposal or reuse of this container may be dangerous and illegal.

Component	CAWAST
Potassium Hydroxide	Toxic

1310-58-3	Corrosive

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

USINV Complies
CANINV Does not Comply
EINECS/ELINCS Does not Comply
ENCS Does not Comply
IECSC Complies

KECL Does not Comply PICCS Complies Complies

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

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

### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Hydroxide 1310-58-3	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
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Potassium Hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ

# **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 7732-18-5	-	-	X
Diethylene Glycol 111-46-6	-	-	X
Potassium Hydroxide 1310-58-3	X	X	Х

#### U.S. EPA Label Information

No information available

### **16. OTHER INFORMATION**

Prepared By Environmental, Health and Safety

Prepared For Thermo Fisher Scientific Inc.©

Issue Date No information available

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**Reason for revision** SDS sections updated.

### **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**