

# SAFETY DATA SHEET

Revision Date 08-Aug-2016

WAI1 - AGHS - OSHA

**Revision Number** 2

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

Product Identifier	
Product Name	Ammonia Standard
Product No	951007
Pure substance/mixture	Mixture
Relevant identified uses of the sub	stance 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
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)

## 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 Clear

Physical State Liquid

Odor None

#### Precautionary Statements

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	>90.0%
Ammonium Chloride	12125-02-9	0.1 - 1.0%

\*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.
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.
Environmental Precautions	Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Methods and Material for Contain	nent and Cleaning Up
Methods for Containment	Prevent further leakage or spillage if safe to do so.

## 7. HANDLING AND STORAGE

## Precautions for Safe Handling

Methods for Cleaning Up

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

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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	
Ammonium Chloride	TWA: 10 mg/m <sup>3</sup>	(Vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	
12125-02-9	STEL: 20 mg/m <sup>3</sup>	(Vacated) STEL: 20 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup>	
Appropriate engineering control	ols			
Engineering Measures Showers Eyewash stations Ventilation systems				
Individual protection measures, such as personal protective equipment				
Eye/face Protection	rotection 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 co protection.	None under normal use conditions. In case of inadequate ventilation wear respiratory protection.		
Hygiene Measures	Handle in accordance with	Handle in accordance with good industrial hygiene and safety practice.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	None
Odor Threshold	No information available
PH Range	5.0 - 8.0

Property_	Values	Remarks • Method
Melting point/freezing point	No information available	
Boiling Point/Range	~ 100 °C / 212 °F	
Flash Point (High in °C)	N/A	
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		
Decomposition Temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive Properties	No information available	

#### **Oxidizing Properties**

#### **Other Information**

Softening PointNo information availableMolecular WeightNo information availableVOC Content(%)No information availableDensityNo Information availableBulk DensityNo information available

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)	-	-
Ammonium Chloride 12125-02-9	LD50 = 1650 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

Numerical measures of toxicity - Product Information

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

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

No information available

Component	Freshwater Algae	Freshwater Fish	Water Flea
Ammonium Chloride 12125-02-9	-	LC50: = 725 mg/L, 24h (Lepomis macrochirus) LC50: = 209 mg/L, 96h static (Cyprinus carpio)	LC50: = 202 mg/L, 24h (Daphnia magna)

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

14. TRANSPORT INFORMATION		
DOT	Not regulated	
	Not regulated	
IATA_	Not regulated	
IMDG/IMO	Not regulated	
15. REGULATORY INFORMATION		
International Inventories		

USINV	Comp
B   (N) 054007	

Complies

CANINV EINECS/ELINCS	Complies Complies
ENCS	Complies
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	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

Component	Weight %	SARA 313 - Threshold Values %
Ammonium Chloride - 12125-02-9	0-2	1.0

#### 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
Ammonium Chloride 12125-02-9	5000 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
Ammonium Chloride	5000 lb	-	RQ 5000 lb final RQ
12125-02-9			RQ 2270 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	-	-	Х
Ammonium Chloride 12125-02-9	Х	Х	Х

#### U.S. EPA Label Information

#### **16. OTHER INFORMATION**

Prepared By	Environmental, Health and Safety
Prepared For	Thermo Fisher Scientific Inc.©
Issue Date	No information available
Revision Date	08-Aug-2016
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 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**