

# SAFETY DATA SHEET (SDS)

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008, (EU) No. 453/2010

**Revision Date** 18-Nov-2016 **WAI2 - EGHS - EUROPEAN Revision Number 1** 

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

**Product Name** Ammonia Reagent 1

**Product No** 2210RE PART 1 OF 2

Pure substance/mixture Mixture

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

Recommended Use Use as laboratory reagent

Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Thermo Orion Inc. (Part of Thermo Fisher Scientific, Inc.) Manufacturer, Importer, Supplier

Water Analysis Instruments

22 Alpha Road

Chelmsford, MA 01824, USA

1-978-232-6000

E-mail address wai.techservbev@thermofisher.com

Made in USA

1.4. Emergency telephone number 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 No 2210RE PART 1 OF 2 **Document No.** 271737-001

# **SECTION 2. HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

**Classification - Mixture** 

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation Category 2 - (H319)

### 2.2. Label elements



#### **Hazard Statements**

H319 - Causes serious eye irritation

#### **Precautionary Statements**

P202 - Do not handle until all safety precautions have been read and understood

### 2.3. Other hazards

No information available

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Component	EC-No.	CAS-No	Weight %	CLP Classification - Regulation (EC) No 1272/2008	REACH Reg. No
Water	EEC No. 231-791-2	7732-18-5	80 - 90%		No information available
Sodium Salicylate	EEC No. 200-198-0	54-21-7	10 - 20%	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	No information available
Sodium Citrate Dihydrate	-	6132-04-3	0 - 10%		No information available
Sodium Nitroprusside Dihydrate	-	13755-38-9	0 - 10%	Acute Tox. 3 (H301)	No information available

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

Full text of H- and EUH-phrases: see section 16

# **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

General Advice Use first aid treatment according to the nature of the injury. For further assistance, contact

your local Poison Control Center. Show this safety data sheet to the doctor in attendance.

Eye Contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call 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.

#### 4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms/effects See section 11, See section 2 for more information

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

### **Suitable Extinguishing Media**

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

#### **Unsuitable Extinguishing Media**

No information available

#### 5.2. Special hazards arising from the substance or mixture

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

#### 5.3. Advice for firefighters

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

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

low areas.

#### 6.3. 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.

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 7 and 8

See Section 8 for information on appropriate personal protective equipment

See Section 12 for additional Ecological Information

See Section 13 for additional waste treatment information

# SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

#### Advice on safe 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.

#### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from direct sunlight.

# 7.3. Specific end use(s)

#### Specific Use(s)

Use as laboratory reagent

#### **Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Component	European Union	The United Kingdom	France	Spain	Germany
Sodium Nitroprusside	-	STEL: 15 mg/m <sup>3</sup> 15	TWA / VME: 5 mg/m <sup>3</sup>	TWA / VLA-ED: 1	TWA: 2 mg/m <sup>3</sup> (8
Dihydrate		min	(8 heures).	mg/m3 (8 horas)	Stunden). MAK
13755-38-9		TWA: 5 mg/m <sup>3</sup> 8 hr	Peau		Höhepunkt: 2 mg/m <sup>3</sup>
		Skin			Haut
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Sodium Nitroprusside	-	TWA: 1 mg/m <sup>3</sup> 8 horas	=		
Dihydrate					
13755-38-9					
Component	Austria	Switzerland	Poland	Norway	Ireland
Sodium Nitroprusside	-	Haut/Peau		TWA: 5 mg/m <sup>3</sup> 8 timer	
Dihydrate		TWA: 1 mg/m <sup>3</sup> 8		Hud	
13755-38-9		Stunden			

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration No information available

(PNEC)

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8.2. Exposure controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Personal protective equipment

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

Goggles.

**Skin and body protection** Wear protective gloves/clothing.

Respiratory Protection No protective equipment is needed under normal use conditions. In case of inadequate

ventilation wear respiratory protection.

Environmental exposure controls No information available

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid
Appearance Light brown
Odor None

Odor Threshold No information available PH Range No information available

Property Values Remarks • Method

Melting point/freezing pointNo information availableBoiling Point/RangeNo information availableFlash Point (High in °C)No information availableEvaporation RateNo information availableFlammability (solid, gas)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

9.2. Other information

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

# **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity

No information available

#### 10.2. Chemical stability

Stable under normal conditions

**Explosion Data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

#### 10.3. Possibility of hazardous reactions

None under normal processing

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight

#### 10.5. Incompatible materials

No information available

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors

# **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

#### **Acute Toxicity**

#### **Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

InhalationNo information availableEye ContactNo information availableSkin ContactNo information availableIngestionNo information available

**Unknown Acute Toxicity** 4 % of the mixture consists of ingredient(s) of unknown toxicity.

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

**ATEmix (oral)** 6,164.00 mg/kg

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	LD50 > 90 mL/kg (Rat)		
Sodium Salicylate	LD50 = 930 mg/kg ( Rat )		

Skin Corrosion/Irritation No information available

Serious eye damage/eye irritation No information available

Sensitization No information available

Mutagenic Effects No information available

Carcinogenic effects 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

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Ammonia Reagent 1 **Product Name** Revision Date 18-Nov-2016

# **SECTION 12. ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

4.16% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Sodium Salicylate	-	LC50: 1270 - 1470 mg/L, 96h	-
		flow-through (Pimephales promelas)	

### 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

No information available

Component	log Pow
Sodium Salicylate	2.26

#### 12.4. Mobility in soil

No information available

# **Mobility**

#### 12.5. Results of PBT and vPvB assessment

No information available

#### 12.6. Other adverse effects

No information available

#### **Endocrine Disruptor Information**

No information available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from Residues / Unused **Products** 

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.

# **SECTION 14: TRANSPORT INFORMATION**

### IMDG/IMO

14.1 UN-No Not Regulated 14.2 Proper Shipping Name Not Regulated Not Regulated 14.3 Hazard Class 14.4 Packing Group Not Regulated Not Applicable 14.5 Marine Pollutant

None 14.6 Special Provisions

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

**IBC Code** 

**ICAO** 

**Document No. 271737-001** 

14.1 UN-NoNot Regulated14.2 Proper Shipping NameNot Regulated14.3 Hazard ClassNot Regulated14.4 Packing GroupNot Regulated14.5 Environmental hazardNot Applicable

14.6 Special Provisions None

IATA

14.1 UN-NoNot Regulated14.2 Proper Shipping NameNot Regulated14.3 Hazard ClassNot Regulated14.4 Packing GroupNot Regulated14.5 Environmental hazardNot Applicable

14.6 Special Provisions None

# **SECTION 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**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

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

#### 15.2. Chemical safety assessment

A Chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

### **SECTION 16: OTHER INFORMATION**

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

#### Legend - SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

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.

#### This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer**

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**End of Safety Data Sheet** 

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