

## SAFETY DATA SHEET

Issue Date 29-May-2018 Revision Date 29-May-2018 Version 2.8

## 1. IDENTIFICATION

**Product identifier** 

**Product Name** 25237000 5500sc Standard 1 Ammoniak Monochloramin

Other means of identification

Product Code(s) 25237000

M00350 Safety data sheet number

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory reagent Analytical reagent Standard solution Solvent

Uses advised against None

Details of the supplier of the safety data sheet

**Initial Supplier Identifier** 

Hach Sales & Service LP. 3020 Gore Road, London, Ontario N5V 4T7 Canada Tel: 1-800-665-7635

**Manufacturer Address** 

Hach Company P.O. Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

Chemtrec 1-800-424-9300 **Emergency Telephone** 

CANUTEC 613-992-4624

## 2. HAZARD IDENTIFICATION

### Classification

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

#### Label elements

### **Hazard statements**

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

#### **Unknown Acute Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

#### Other Hazards Known

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

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

Chemical Name Water

Chemical Family Inorganic Oxides.

Formula H<sub>2</sub>O
CAS No 7732-18-5
Chemical nature aqueous solution.

## 4. FIRST AID MEASURES

#### Description of first aid measures

General advice No hazards which require special first aid measures. Use first aid treatment according to

the nature of the injury.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

**Hazardous combustion products** This material will not burn.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

WHMIS Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

**Personal precautions** Ensure adequate ventilation.

Environmental precautions

**Environmental precautions** 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** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

**Legend** See section 16 for terms and abbreviations

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hand Protection Wear suitable gloves.

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**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection**No special protective equipment required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color

#### Information on basic physical and chemical properties

Physical state

Odor

Liquid

Appearance clear

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aqueous solution Odorless

Odor threshold Not applicable

colorless

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

Molecular weight 18.02 g/mole

**pH** 7

Melting point/freezing point 0 °C / 32 °F

Boiling point / boiling range 100 °C / 212 °F

Evaporation rate 1 (water = 1)

Vapor pressure 23.777 mm Hg / 3.17 kPa at 25 °C / 77 °F

Vapor density (air = 1) 0.62 Air = 1

Specific gravity (water = 1 / air = 1) 1

Partition Coefficient (n-octanol/water) Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

**Decomposition temperature** Not applicable

**Dynamic viscosity** 1 cP (mPa s) at 20 °C / 68 °F

Kinematic viscosity 1 cSt (mm<sup>2</sup>/s) at 20 °C / 68 °F

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	> 10000 mg/L	25 °C / 77 °F

## Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acids	Soluble	> 1000 mg/L	25 °C / 77 °F

Most Polar Organic Solvents	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **Other Information**

**Metal Corrosivity** 

Steel Corrosion RateNot applicableAluminum Corrosion RateNot applicable

**Volatile Organic Compounds (VOC) Content** 

This Product is by Weight 100% an Individual Pure Chemical Substance

**Explosive properties** 

Upper explosion limitNot applicableLower explosion limitNot applicable

Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density

No data available

Particle Size No information available

Particle Size Distribution No information available

## 10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

**Hazardous polymerization** 

Hazardous polymerization does not occur.

Conditions to avoid

**Conditions to avoid**None known based on information supplied.

Incompatible materials

Incompatible materials Strong oxidizing agents, strong acids, and strong bases.

**Hazardous Decomposition Products** 

None known.

## 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

**Product Information** 

**Inhalation** No known effect based on information supplied.

Eye contact No known effect based on information supplied.

**Skin contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

Aggravated Medical Conditions None known.

Toxicologically synergistic

products

None known.

**Toxicokinetics, metabolism and** This Product is by Weight 100% an Individual Pure Chemical Substance. **distribution** 

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Product Acute Toxicity Data

This Product is by Weight 100% an Individual Pure Chemical

Substance

Oral Exposure Route

Dermal Exposure Route

If available, see ingredient data below

### **Unknown Acute Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

## **Acute Toxicity Estimations (ATE)**

Not applicable

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

## **Ingredient Acute Toxicity Data**

Oral Exposure Route

Dermal Exposure Route

If available, see data below

Product Specific Target Organ Toxicity Single Exposure

Data

Oral Exposure Route If available, see ingredient data below

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Dermal Exposure Route
If available, see ingredient data below
Inhalation (Dust/Mist) Exposure Route
If available, see ingredient data below
Inhalation (Vapor) Exposure Route
If available, see ingredient data below
Inhalation (Gas) Exposure Route
If available, see ingredient data below
If available, see ingredient data below

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

**Aspiration toxicity** 

If available, see data below

Kinematic viscosity 1 cSt (mm²/s)

#### **Product Skin Corrosion/Irritation Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

#### Ingredient Skin Corrosion/Irritation Data

If available, see data below

### Product Serious Eye Damage/Eye Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

## Ingredient Eye Damage/Eye Irritation Data

No data available

#### **Sensitization Information**

**Product Sensitization Data** 

Skin Sensitization Exposure Route This Product is by Weight 100% an Individual Pure Chemical

Substance. If available, see ingredient data below.

Respiratory Sensitization Exposure Route This Product is by Weight 100% an Individual Pure Chemical

Substance. If available, see ingredient data below.

**Ingredient Sensitization Data** 

Skin Sensitization Exposure RouteIf available, see data below.Respiratory Sensitization Exposure RouteIf available, see data below.

#### **Chronic Toxicity Information**

Product Specific Target Organ Toxicity Repeat Dose Data

Oral Exposure Route
Dermal Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see ingredient data below.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

**Product Carcinogenicity Data** 

Oral Exposure Route
Dermal Exposure Route
If available, see ingredient data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see ingredient data below

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## **Ingredient Carcinogenicity Data**

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Oral Exposure Route

Dermal Exposure Route

If available, see data below

#### Product Germ Cell Mutagenicity invitro Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

#### Ingredient Germ Cell Mutagenicity invitro Data

No data available

Product Germ Cell Mutagenicity invivo Data

Oral Exposure Route

Dermal Exposure Route

If available, see ingredient data below

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below
If available, see data below

**Product Reproductive Toxicity Data** 

Oral Exposure Route

Dermal Exposure Route

If available, see ingredient data below

Ingredient Reproductive Toxicity Data

Oral Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Product Ecological Data This Product is by Weight 100% an Individual Pure Chemical

Substance

**Aquatic toxicity** 

Fish If available, see ingredient data below Crustacea If available, see ingredient data below Algae If available, see ingredient data below

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#### **Ingredient Ecological Data**

**Aquatic toxicity** 

FishNo data availableCrustaceaNo data availableAlgaeNo data available

**Other Information** 

## Persistence and degradability

## **Product Biodegradability Data**

This Product is by Weight 100% an Individual Pure Chemical Substance.

**Ingredient Biodegradability Data** 

## **Bioaccumulation**

#### **Product Bioaccumulation Data**

This Product is by Weight 100% an Individual Pure Chemical Substance.

Partition Coefficient (n-octanol/water)

Not applicable

**Ingredient Bioaccumulation Data** 

### **Mobility**

**Soil Organic Carbon-Water Partition Coefficient** 

Not applicable

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	> 10000 mg/L	25 °C / 77 °F

## Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

Transport Canada Not regulated

TDG Not regulated

IATA Not regulated

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<u>IMDG</u> Not regulated

#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods.

If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## 15. REGULATORY INFORMATION

### **Regulatory information**

**National Inventories** 

DSL/NDSL Complies

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **International Inventories**

Complies **TSCA EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies TCSI Complies Complies **AICS** Complies **NZIoC** 

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

## Canada - CEPA - Mercury Containing Products

None

### **International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

**Export Notification requirements** Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### **Special Comments**

None

#### NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical
				Properties OX
HMIS	Health hazards - 0	Flammability - 0	Physical Hazards - 0	Personal protection - X

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- See section 8 for more

## information

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

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

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

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

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

**Issue Date** 29-May-2018

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**Revision Note** 

None

## **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet**