# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## L2348 Ammonia Cyanurate Reagent



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

L2348 Ammonia Cyanurate Reagent

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

**Use of the substance/mixture**

Water analysis

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer**

| | |
|---|---|
| Company name: | GE Water<br>& Process Technologies B.V.B.A. |
| Street: | Interleuvenlaan 25 |
| Place: | B-3001 Heverlee |
| Telephone: | +32 (0)16 40 20 00 |
| e-mail: | emea.productstewardship@ge.com |

### 1.4. Emergency telephone number:

+44 (0)1235 239670
This telephone number is available 24 hours per day, 7 days per week.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Indications of danger: Harmful
R phrases:
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.

### 2.2. Label elements

Danger symbols: Xn - Harmful


Xn - Harmful

**Hazardous components which must be listed on the label**

Lithium hydroxide

**R phrases**

| | |
|---|---|
| 20 | Harmful by inhalation. |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |

**S phrases**

| | |
|---|---|
| 22 | Do not breathe dust. |
| 36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |

**Additional advice on labelling**

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous components**

| EC No | Chemical name | Quantity |
|---|---|---|
| CAS No | Classification | |
| Index No | GHS classification | |
| REACH No | | |
| 200-675-3 | tri-Sodium citrate dihydrate | 80-90 % |
| 6132-04-3 | | |
| | | |
| 212-773-3 | di-Sodium tartrate dihydrate | 5-15 % |
| 6106-24-7 | | |
| | | |
| 215-183-4 | Lithium hydroxide | 1-5 % |
| 1310-65-2 | C - Corrosive, Xn - Harmful R22-35 | |
| | Acute Tox. 3, Acute Tox. 3, Skin Corr. 1A; H301 H311 H314 | |
| 220-767-7 | Sodium dichloroisocyanurate, troclosene sodium | 1-5 % |
| 2893-78-9 | E - Explosive, O - Oxidizing, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R2-8-22-36/37-31-50-53 | |
| 613-030-00-X | Ox. Sol. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H272 H302 H319 H335 H400 H410 | |

Full text of R and H phrases: see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

Take off all contaminated clothing immediately.

**After inhalation**

Move to fresh air.

Consult a physician. Show this safety data sheet to the doctor in attendance.

**After contact with skin**

Wash off with soap and water. Take off contaminated clothing and shoes immediately.

Call a physician immediately. Show this safety data sheet to the doctor in attendance.

**After contact with eyes**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**After ingestion**

Drink 1 or 2 glasses of water. Prevent vomiting if possible. Never give anything by mouth to an unconscious person.

Call a physician immediately. Show this safety data sheet to the doctor in attendance.

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

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.

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

Fire may liberate hazardous vapours.

### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

**Additional information**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

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

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Avoid contact with skin and eyes. Use only in well-ventilated areas. Do not breathe vapours/dust.

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

**Requirements for storage rooms and vessels**

Keep in a dry place. Keep away from heat.

**Advice on storage compatibility**

Incompatible with acids.

**Further information on storage conditions**

Keep locked up or in an area accessible only to qualified or authorised persons.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---|---|---|---|---|---|---|
| 1310-65-2 | Lithium hydroxide | - | - | | TWA (8 h) | WEL |
| | | - | 1 | | STEL (15 min) | WEL |

### 8.2. Exposure controls

**Protective and hygiene measures**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Provide adequate ventilation.

**Hand protection**

Use barrier skin cream. Wash hands before breaks and after work. Chemical resistant protective gloves The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

**Eye protection**

Safety glasses with side-shields

**Skin protection**

Avoid contact with skin, eyes and clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | solid |
| Colour: | white |
| Odour: | slight chlorine |

| | | Test method |
|---|---|---|
| pH-Value (at 20 °C): | 12,3 (5 % solution) | |
| **Changes in the physical state** | | |
| Melting point: | > 240 °C | |
| Boiling point: | not applicable | |
| Flash point: | not applicable | |
| Lower explosion limits: | not applicable | |
| Upper explosion limits: | not applicable | |
| Density (at 20 °C): | 1,783 g/cm³ | |
| Water solubility: (at 20 °C) | soluble | |

## SECTION 10: Stability and reactivity

### 10.4. Conditions to avoid

Product is sensitive to light and moisture. Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Acids

### 10.6. Hazardous decomposition products

nitrogen oxides (NOx), Acid chlorides

**Further information**

Stable under recommended storage conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity**

No data is available on the product itself.

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure routes | Method | Dose | Species | Source |
| 1310-65-2 | Lithium hydroxide | | | | |
| | oral | LD50 | 210 mg/kg | Ratte | |
| | dermal | ATE | 300 mg/kg | | |
| | inhalative (4 h) vapour | LC50 | 960 mg/l | Ratte | |
| 2893-78-9 | Sodium dichloroisocyanurate, troclosene sodium | | | | |
| | oral | ATE | 500 mg/kg | | |

**Specific effects in experiment on an animal**

No data is available on the product itself.

## SECTION 12: Ecological information

**12.1. Toxicity**

No data is available on the product itself. Do not let product enter drains.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Advice on disposal**

In accordance with local and national regulations.

**Waste disposal number of waste from residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

**Waste disposal number of used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number:** | 2680 |
| **14.2. UN proper shipping name:** | Lithium hydroxide |
| **14.3. Transport hazard class(es):** | 8 |
| **14.4. Packing group:** | II |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.2. UN proper shipping name:** | Not tested |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number:** | 2680 |
| **14.2. UN proper shipping name:** | Lithium hydroxide |
| **14.3. Transport hazard class(es):** | 8 |
| **14.4. Packing group:** | II |
| Marine pollutant: | -- |
| EmS: | F-A,S-B |

**Air transport (ICAO)**

| | |
|---|---|
| **14.1. UN number:** | 2680 |
| **14.2. UN proper shipping name:** | Lithium hydroxide |

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** II

**Other applicable information**

Additional Information:This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P

## SECTION 15: Regulatory information

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

**National regulatory information**

Water contaminating class (D): 2 - water contaminating

## SECTION 16: Other information

**Full text of R phrases referred to under Sections 2 and 3**

| | |
|---|---|
| 02 | Risk of explosion by shock, friction, fire or other sources of ignition. |
| 08 | Contact with combustible material may cause fire. |
| 20 | Harmful by inhalation. |
| 22 | Harmful if swallowed. |
| 31 | Contact with acids liberates toxic gas. |
| 35 | Causes severe burns. |
| 36/37 | Irritating to eyes and respiratory system. |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |
| 50 | Very toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

**Full text of H statements referred to under Sections 2 and 3**

| | |
|---|---|
| H272 | May intensify fire; oxidiser. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*