

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ZINC LIQUID

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 20.03.2020  |
| 1.5     | 05.02.2025     | 50001111    | Date of first issue: 20.03.2020 |

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

#### 1.1 Product identifier

**Product name** ZINC LIQUID

#### Other means of identification

**Product code** 50001111

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

Use of the Sub- : A fertilizer with micronutrients for use in agriculture  
stance/Mixture

Recommended restrictions : Use as recommended by the label.  
on use

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

##### Supplier Address

FMC Agro Limited  
Rectors Lane, Pentre  
Flintshire  
CH5 2DH  
United Kingdom

Telephone: + 44 1244 537370  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
England and Wales: 44-870-8200418 (CHEMTREC)

Medical emergency:  
England and Wales: 111  
Scotland: 84 54 24 2424

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Serious eye damage/eye irritation, Cate- H318: Causes serious eye damage.

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Short-term (acute) aquatic hazard, Category 1      H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1      H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P391 Collect spillage.

Hazardous components which must be listed on the label:

Zinc sulphate, monohydrate

#### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name              | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|----------------------------|---|---|--------------------------|
| Zinc sulphate, monohydrate | 7446-19-7   | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 1<br>M-Factor (Chronic<br>aquatic toxicity): 10 | >= 25 - < 30             |
| ethanediol                 | 107-21-1<br>203-473-3<br>603-027-00-1                 | Acute Tox. 4; H302<br>STOT RE 2; H373<br>(Kidney)   | >= 1 - < 10              |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection  
and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific  
personal protective equipment.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical  
advice.  
If symptoms persist, call a physician.  
If experiencing any discomfort, immediately remove from ex-

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posure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Risks : Causes serious eye damage.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet  
Do not spread spilled material with high-pressure water streams.

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

Specific hazards during fire- : Do not allow run-off from fire fighting to enter drains or water

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fighting courses.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.

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Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Fertilizers

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No.  | Value type (Form of exposure)  | Control parameters              | Basis      |
|------------|----------|--|---------------------------------|------------|
| ethanediol | 107-21-1 | TWA (particles)  | 10 mg/m <sup>3</sup>            | GB EH40    |
|            |          | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                 |            |
|            |          | TWA (Vapour)   | 20 ppm<br>52 mg/m <sup>3</sup>  | GB EH40    |
|            |          | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                 |            |
|            |          | STEL (Vapour)  | 40 ppm<br>104 mg/m <sup>3</sup> | GB EH40    |
|            |          | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                 |            |
|            |          | TWA  | 20 ppm<br>52 mg/m <sup>3</sup>  | 2000/39/EC |

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|  |  |
|--|--|
|  | Further information: Identifies the possibility of significant uptake through the skin, Indicative |
|  | STEL      40 ppm<br>104 mg/m <sup>3</sup> 2000/39/EC   |
|  | Further information: Identifies the possibility of significant uptake through the skin, Indicative |

### Derived No Effect Level (DNEL)

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|--------------------------|-------|
|----------------|---------|-----------------|--------------------------|-------|

### Predicted No Effect Concentration (PNEC)

| Substance name             | Environmental Compartment | Value                        |
|----------------------------|---------------------------|------------------------------|
| Zinc sulphate, monohydrate | Sewage treatment plant    | 5.2 mg/l                     |
| ethanediol                 | Fresh water               | 10 mg/l                      |
|                            | Marine water              | 1 mg/l                       |
|                            | Sewage treatment plant    | 199.5 mg/l                   |
|                            | Fresh water sediment      | 37 mg/kg dry weight (d.w.)   |
|                            | Marine sediment           | 3.7 mg/kg dry weight (d.w.)  |
|                            | Soil                      | 1.53 mg/kg dry weight (d.w.) |

## 8.2 Exposure controls

### Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Protective measures : Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions.  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Wear suitable protective equipment.

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### SECTION 9: Physical and chemical properties

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

|  |   |                      |
|--|---|----------------------|
| Physical state                                   | : | liquid               |
| Form   | : | liquid               |
| Colour   | : | purple               |
| Odour  | : | Barely perceptible   |
| Odour Threshold                                  | : | No data available    |
| pH   | : | 1.0 - 5.0            |
|  |   | Concentration: 100 % |
| Melting point/freezing point                     | : | No data available    |
| Initial boiling point and boiling range          | : | No data available    |
| Flash point                                      | : | No data available    |
| Upper explosion limit / Upper flammability limit | : | No data available    |
| Lower explosion limit / Lower flammability limit | : | No data available    |
| Vapour pressure                                  | : | No data available    |
| Relative vapour density                          | : | No data available    |
| Relative density                                 | : | 1.33 - 1.37          |
| Density  | : | No data available    |
| Bulk density                                     | : | No data available    |
| Solubility(ies)                                  |   |                      |
| Water solubility                                 | : | soluble              |
| Solubility in other solvents                     | : | No data available    |
| Partition coefficient: n-octanol/water           | : | No data available    |
| Auto-ignition temperature                        | : | No data available    |
| Decomposition temperature                        | : | No data available    |
| Viscosity  |   |                      |
| Viscosity, dynamic                               | : | No data available    |
| Viscosity, kinematic                             | : | No data available    |
| Explosive properties                             | : | No data available    |
| Oxidizing properties                             | : | No data available    |

#### 9.2 Other information

|                            |   |                   |
|----------------------------|---|-------------------|
| Particle size              | : | No data available |
| Particle Size Distribution | : | No data available |

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

#### 10.4 Conditions to avoid

Conditions to avoid : Avoid extreme temperatures  
Avoid formation of aerosol.

#### 10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

#### 10.6 Hazardous decomposition products

Toxic fumes

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Based on available data, the classification criteria are not met.

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

##### Components:

##### **Zinc sulphate, monohydrate:**

Acute oral toxicity : LD50 (Rat, male): 1,710 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: irritating  
Remarks: no mortality

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### ethanediol:

Acute inhalation toxicity : LC0 (Rat, male and female): > 2.5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Remarks: no mortality

Acute dermal toxicity : LD50 (Mouse, male and female): > 3,500 mg/kg

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Product:

Remarks : No data is available on the product itself.

### Components:

#### Zinc sulphate, monohydrate:

Species : Mouse  
Result : slight irritation  
Remarks : Based on data from similar materials

Species : Rabbit  
Result : slight irritation  
Remarks : Based on data from similar materials

Species : Guinea pig  
Result : slight irritation  
Remarks : Based on data from similar materials

### ethanediol:

Species : Rabbit  
Result : No skin irritation

### Serious eye damage/eye irritation

Causes serious eye damage.

### Product:

Assessment : Irritating to eyes.  
Result : irritating  
Remarks : No data is available on the product itself.

### Components:

#### Zinc sulphate, monohydrate:

Result : Irreversible effects on the eye

### ethanediol:

Species : Rabbit

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Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Product:

Remarks : No data available

#### Components:

##### Zinc sulphate, monohydrate:

Exposure routes : Skin contact  
Species : Mouse  
Result : Not a skin sensitizer.

##### ethanediol:

Test Type : Maximisation Test  
Species : Guinea pig  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Components:

##### Zinc sulphate, monohydrate:

Genotoxicity in vitro : Test Type: gene mutation test  
Result: negative  
Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro  
Result: negative

##### ethanediol:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OPPTS 870.5100  
Result: negative  
Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Rat  
Application Route: Oral  
Result: negative

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### **Carcinogenicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **Zinc sulphate, monohydrate:**

Remarks : No human information is available.

#### **ethanediol:**

Species : Mouse  
Application Route : Oral  
Exposure time : 24 month(s)  
Result : negative

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **Zinc sulphate, monohydrate:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### **STOT - single exposure**

Based on available data, the classification criteria are not met.

### **STOT - repeated exposure**

Based on available data, the classification criteria are not met.

### **Components:**

#### **Zinc sulphate, monohydrate:**

Remarks : No data available

#### **ethanediol:**

Exposure routes : Oral  
Target Organs : Kidney  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **Repeated dose toxicity**

### **Components:**

#### **ethanediol:**

Species : Rat  
NOAEL : 150 mg/kg  
Application Route : Oral

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Exposure time : 12 Months  
Species : Dog  
NOAEL : > 2,200 - < 4,400 mg/kg  
Application Route : Dermal  
Exposure time : 4 Weeks  
Method : OECD Test Guideline 410

### Aspiration toxicity

Based on available data, the classification criteria are not met.

### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Zinc sulphate, monohydrate:

Toxicity to fish : LC50 (Fish): 0.112 mg/l  
Exposure time: 96 h  
  
LC50 (Oncorhynchus mykiss (rainbow trout)): 0.169 mg/l  
Exposure time: 96 h  
  
Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.131 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202  
  
Toxicity to algae/aquatic : NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.0052  
plants : mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
  
M-Factor (Acute aquatic tox- : 1  
icity)  
  
Toxicity to fish (Chronic tox- : EC10:  
icity)  
  
Toxicity to daphnia and other : NOEC: 0.0056 mg/l  
aquatic invertebrates (Chron- : Exposure time: 10 d  
ic toxicity)  
  
M-Factor (Chronic aquatic : 10

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toxicity)

### **ethanediol:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 72,860 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : IC50 (Pseudokirchneriella subcapitata (green algae)): 10,940 mg/l  
Exposure time: 96 h
- Toxicity to microorganisms : (activated sludge): > 1,995 mg/l  
Exposure time: 30 min  
Method: ISO 8192
- Toxicity to fish (Chronic toxicity) : 1,500 mg/l  
Exposure time: 28 d  
Species: Menidia peninsulae (tidewater silverside)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 33,911 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

## 12.2 Persistence and degradability

### **Components:**

#### **Zinc sulphate, monohydrate:**

Biodegradability : Remarks: No data available

#### **ethanediol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 - 100 %  
Exposure time: 10 d  
Method: OECD Test Guideline 301A

## 12.3 Bioaccumulative potential

### **Components:**

#### **Zinc sulphate, monohydrate:**

Bioaccumulation : Remarks: Not inherently biodegradable.

Partition coefficient: n-octanol/water : Remarks: Not applicable

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### ethanediol:

Partition coefficient: n-  
octanol/water : log Pow: -1.36

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 3082  
ADR : UN 3082  
RID : UN 3082

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**IMDG** : UN 3082

**IATA** : UN 3082

### 14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(zinc sulfate)

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(zinc sulfate)

**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(zinc sulfate)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(zinc sulfate)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(zinc sulfate)

### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | : 9   |                  |
| <b>ADR</b>  | : 9   |                  |
| <b>RID</b>  | : 9   |                  |
| <b>IMDG</b> | : 9   |                  |
| <b>IATA</b> | : 9   |                  |

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

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### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

Environmentally hazardous : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

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lowing entries should be considered:  
Number on list 3

ethanediol (Number on list 3)  
nitric acid ...% [C ≤ 70 %] (Number on list 3)

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) E1 ENVIRONMENTAL HAZARDS  
E1

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### The components of this product are reported in the following inventories:

- TCSI : Not in compliance with the inventory
- TSCA : Product contains substance(s) not listed on TSCA inventory.
- AIIC : Not in compliance with the inventory
- DSL : This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

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|       |   |   |
|-------|---|---|
| ENCS  | : | Not in compliance with the inventory                  |
| ISHL  | : | Not in compliance with the inventory                  |
| KECI  | : | Not in compliance with the inventory                  |
| PICCS | : | Not in compliance with the inventory                  |
| IECSC | : | Not in compliance with the inventory                  |
| NZIoC | : | On the inventory, or in compliance with the inventory |
| TECI  | : | Not in compliance with the inventory                  |

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

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## SECTION 16: Other information

### Full text of H-Statements

|      |   |   |
|------|---|---|
| H302 | : | Harmful if swallowed.   |
| H318 | : | Causes serious eye damage.  |
| H373 | : | May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400 | : | Very toxic to aquatic life.   |
| H410 | : | Very toxic to aquatic life with long lasting effects.                           |

### Full text of other abbreviations

|                   |   |  |
|-------------------|---|--|
| Acute Tox.        | : | Acute toxicity   |
| Aquatic Acute     | : | Short-term (acute) aquatic hazard  |
| Aquatic Chronic   | : | Long-term (chronic) aquatic hazard   |
| Eye Dam.          | : | Serious eye damage   |
| STOT RE           | : | Specific target organ toxicity - repeated exposure   |
| 2000/39/EC        | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| GB EH40           | : | UK. EH40 WEL - Workplace Exposure Limits   |
| 2000/39/EC / TWA  | : | Limit Value - eight hours  |
| 2000/39/EC / STEL | : | Short term exposure limit  |
| GB EH40 / TWA     | : | Long-term exposure limit (8-hour TWA reference period)   |
| GB EH40 / STEL    | : | Short-term exposure limit (15-minute reference period)   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-

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boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| 1                 | H318 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |

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