

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Product Name** IV-19

**Product Description** 100 µg/mL: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Ti, Tl, V, Zn  
 Contains Beryllium di(acetate)

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

**Recommended Use** Laboratory chemicals

**Uses advised against** No information available

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

#### Company

Inorganic Ventures  
 300 Technology Drive  
 Christiansburg, VA 24073  
 Phone: 1(800) 669-6799  
 Email: info@inorganicventures.com

### 1.4. Emergency telephone number

Chemtrec 1-800-424-9300 (North America)

Chemtrec +1 703-741-5970 (International)

|        |           |
|--------|-----------|
| Europe | See above |
|--------|-----------|

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

#### GHS

|                                   |                      |
|-----------------------------------|----------------------|
| Skin corrosion/irritation         | Category 2 - (H315)  |
| Serious eye damage/eye irritation | Category 2 - (H319)  |
| Carcinogenicity                   | Category 1A - (H350) |
| Corrosive to metals               | Category 1 - (H290)  |

### 2.2. Label elements

**Product identifier**  
 Contains Beryllium di(acetate)



**Signal word**

Danger

**Hazard statements**

H290 - May be corrosive to metals

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H350 - May cause cancer

H319 - Causes serious eye irritation

EUH071 - Corrosive to the respiratory tract

**Precautionary Statements - EU (§28, 1272/2008)**

P234 - Keep only in original container

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P310 - Immediately call a POISON CENTER or doctor/physician

**2.3. Other hazards**

Other hazards

Toxic to aquatic life

No information available

**SECTION 3: Composition/information on ingredients****3.1 Substances**

| Chemical name         | EC No. (Index No.)                                              | CAS No.   | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                          | REACH registration number |
|-----------------------|-----------------------------------------------------------------|-----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Nitric acid           | 231-714-2<br>(007-004-00-1)<br>(007-030-00-3)<br>(078-012-00-0) | 7697-37-2 | 4.9      | (EUH071)<br>Skin Corr. 1A (H314)<br>Ox. Liq. 3 (H272)<br>Acute Tox. 3 (H331)                                                                                                                             | No data available         |
| Beryllium di(acetate) | 208-850-6<br>(004-002-00-2)                                     | 543-81-7  | 0.11278  | Acute Tox. 3 (H301)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1 (H317)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 2 (H330)<br>STOT SE 3 (H335)<br>Carc. 1B (H350i)<br>STOT RE 1 (H372)<br>Aquatic Chronic 2 (H411) | No data available         |
| Copper                | 231-159-6<br>(029-026-00-0)                                     | 7440-50-8 | 0.01     | Aquatic Chronic 2 (H411)                                                                                                                                                                                 | No data available         |

**Full text of H- and EUH-phrases: see section 16****SECTION 4: First aid measures****4.1. Description of first aid measures****General Advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Inhalation**

Call a physician or poison control center immediately. Remove to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

**Skin Contact**

Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

|                                           |                                                                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>                        | Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. |
| <b>Ingestion</b>                          | Immediate medical attention is required. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.                                                          |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.                                                                                                                                                     |

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

|                                            |                                |
|--------------------------------------------|--------------------------------|
| <b>Most Important Symptoms and Effects</b> | Burn. Difficulty in breathing. |
|--------------------------------------------|--------------------------------|

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

|                           |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to Physician</b> | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **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**

Wear self-contained breathing apparatus and protective suit. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

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

##### **Personal Precautions**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing.

##### **Advice for emergency responders**

Ensure adequate ventilation.

#### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. See Section 12 for additional Ecological Information.

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

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so. |
|--------------------------------|-------------------------------------------------------|

|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| <b>Methods for Cleaning Up</b> | Take up mechanically, placing in appropriate containers for disposal. |
|--------------------------------|-----------------------------------------------------------------------|

#### **6.4. Reference to other sections**

See Section 12: ECOLOGICAL INFORMATION.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Ensure adequate ventilation.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

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

#### Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

| Chemical name                     | European Union                                                                         | United Kingdom                                                                                                                                | France                                                                                    | Spain                                                                | Germany DFG                                                                                                              |                                  |
|-----------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Nitric acid<br>7697-37-2          | STEL: 1 ppm;<br>STEL: 2.6 mg/m³;                                                       | STEL: 1 ppm;<br>STEL: 2.6 mg/m³;                                                                                                              | STEL-VLCT (indicatif):<br>1 ppm;<br>STEL-VLCT (indicatif):<br>2.6 mg/m³;                  | STEL (VLA-EC): 1<br>ppm;<br>STEL (VLA-EC): 2.6<br>mg/m³;             |                                                                                                                          |                                  |
| Beryllium di(acetate)<br>543-81-7 |                                                                                        | TWA: 0.002 mg/m³;<br>STEL: 0.006 mg/m³;                                                                                                       | TWA-VME (restrictif):<br>0.0006 mg/m³; inhalabl<br>e fraction                             | TWA-(VLA-ED): 0.0002<br>mg/m³;<br>S                                  |                                                                                                                          |                                  |
| Copper<br>7440-50-8               |                                                                                        | TWA: 1 mg/m³; dust<br>and mist<br>TWA: 0.2 mg/m³; fume<br>STEL: 0.6 mg/m³; fume<br>STEL: 2 mg/m³; dust<br>and mist                            | TWA-VME: 0.2 mg/m³;<br>fume<br>TWA-VME: 1 mg/m³;<br>dust<br>STEL-VLCT: 2 mg/m³;<br>dust   | TWA-(VLA-ED): 0.01<br>mg/m³; respirable<br>fraction                  | TWA-MAK: 0.01 mg/m<br>³; II(2); respirable<br>fraction                                                                   |                                  |
| Chemical name                     | Italy MDLPS                                                                            | Portugal                                                                                                                                      | Netherlands                                                                               | Finland                                                              | Denmark                                                                                                                  |                                  |
| Nitric acid<br>7697-37-2          | STEL: 1 ppm;<br>STEL: 2.6 mg/m³;                                                       | TWA (VLE-MP): 2 ppm;<br>STEL (VLE-CD): 1<br>ppm;<br>STEL (VLE-CD): 2.6<br>mg/m³;                                                              | STEL: 0.5 ppm;<br>STEL: 1.3 mg/m³;                                                        | TWA: 0.5 ppm;<br>TWA: 1.3 mg/m³;<br>STEL: 1 ppm;<br>STEL: 2.6 mg/m³; | STEL: 1 ppm;<br>STEL: 2.6 mg/m³;                                                                                         |                                  |
| Beryllium di(acetate)<br>543-81-7 |                                                                                        | STEL (VLE-CD): 0.01<br>mg/m³;<br>pSk                                                                                                          | Sk                                                                                        |                                                                      | TWA: 0.00002 mg/m³;<br>STEL: 0.00004 mg/m³;                                                                              |                                  |
| Copper<br>7440-50-8               |                                                                                        | TWA (VLE-MP): 0.2<br>mg/m³; fume<br>TWA (VLE-MP): 1<br>mg/m³; dust; mist                                                                      | TWA: 0.1 mg/m³;<br>inhalable                                                              | TWA: 0.02 mg/m³;<br>respirable dust                                  | TWA: 1.0 mg/m³; dust<br>and powder<br>TWA: 0.1 mg/m³; fume<br>STEL: 2 mg/m³; dust<br>and powder<br>STEL: 0.2 mg/m³; fume |                                  |
| Chemical name                     | Sweden                                                                                 | Austria                                                                                                                                       | Switzerland                                                                               | Poland                                                               | Norway                                                                                                                   | Ireland                          |
| Nitric acid<br>7697-37-2          | LLV: 0.5 ppm<br>LLV: 1.3 mg/m³<br>Binding STLv: 1<br>ppm<br>Binding STLv: 2.6<br>mg/m³ | TWA-TMW: 1 ppm;<br>TWA-TMW:<br>2.6 mg/m³;<br>STEL-KZGW: 1<br>ppm ();<br>STEL-KZGW: 2.6<br>mg/m³ ();<br>Ceiling: 1 ppm;<br>Ceiling: 2.6 mg/m³; | TWA-MAK: 2 ppm;<br>TWA-MAK: 5<br>mg/m³;<br>STEL-KZGW: 2<br>ppm;<br>STEL-KZGW: 5<br>mg/m³; | TWA-NDS: 1.4<br>mg/m³;<br>STEL-NDSch: 2.6<br>mg/m³;                  | TWA: 2 ppm;<br>TWA: 5 mg/m³;<br>STEL: 4 ppm (value<br>calculated);<br>STEL:<br>mg/m³ (value<br>calculated);<br>10        | STEL: 1 ppm;<br>STEL: 2.6 mg/m³; |

|                                   |                                                        |                                                                                                                                                                                                                                                                                                |                                                                                                                  |                                     |                                                                                                                                                                                                   |                                                                                                                                                                                                 |
|-----------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beryllium di(acetate)<br>543-81-7 |                                                        | DS                                                                                                                                                                                                                                                                                             | TWA-MAK: 0.0006<br>mg/m <sup>3</sup> ; inhalable<br>dust<br>S                                                    |                                     |                                                                                                                                                                                                   | TWA: 0.0002<br>mg/m <sup>3</sup> ;<br>STEL: 0.0006<br>mg/m <sup>3</sup> (calculated);                                                                                                           |
| Copper<br>7440-50-8               | LLV: 1 mg/m <sup>3</sup><br>LLV: 0.2 mg/m <sup>3</sup> | TWA-TMW:<br>1 mg/m <sup>3</sup> ; inhalable<br>fraction<br>TWA-TMW:<br>0.1 mg/m <sup>3</sup> ;<br>respirable fraction,<br>smoke<br>STEL-KZGW: 4<br>mg/m <sup>3</sup> (4 X 15 min);<br>inhalable fraction<br>STEL-KZGW: 0.4<br>mg/m <sup>3</sup> (4 X 15 min);<br>respirable fraction,<br>smoke | TWA-MAK: 0.1<br>mg/m <sup>3</sup> ; inhalable<br>dust<br>STEL-KZGW: 0.2<br>mg/m <sup>3</sup> ; inhalable<br>dust | TWA-NDS: 0.2<br>mg/m <sup>3</sup> ; | TWA: 0.1 mg/m <sup>3</sup> ;<br>fume<br>TWA: 1 mg/m <sup>3</sup> ; dust<br>STEL: 3<br>mg/m <sup>3</sup> (value<br>calculated); dust<br>STEL: 0.3<br>mg/m <sup>3</sup> (value<br>calculated); fume | TWA: 0.2 mg/m <sup>3</sup> ;<br>fume<br>TWA: 1 mg/m <sup>3</sup> ;<br>dusts and mists<br>STEL: 2 mg/m <sup>3</sup> ;<br>dusts and mists<br>STEL: 0.6<br>mg/m <sup>3</sup> (calculated);<br>fume |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

## 8.2. Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

#### Eye/Face Protection

Wear safety glasses with side shields (or goggles).

#### Hand Protection

Impervious gloves.

#### Skin and Body Protection

Impervious clothing. Boots. Chemical resistant apron.

#### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Environmental Exposure Controls** Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Appearance

clear /LIGHT GRAY

#### Odor

Odorless

#### pH - VALUE 1

No data available

#### Melting point / melting range

No data available

#### Initial boiling point and boiling range

100 °C / 212 °F

#### Vapor pressure @20 °C (kPa)

No data available

#### Relative vapor density

No data available

#### Relative Density

No data available

#### Specific gravity - VALUE 1

No data available

#### Water solubility

Miscible

#### Partition coefficient: n-octanol/water

No data available

#### Autoignition temperature

No data available

#### Decomposition temperature

No data available

#### Dynamic viscosity - VALUE 1

No data available

#### Explosive properties

No information available

#### Oxidizing Properties

No information available

#### VOC content

No information available

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**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

No data 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****Hazardous polymerization**

None under normal processing.

**Hazardous Reactions**

None under normal processing.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Bases Cyanides

**10.6. Hazardous decomposition products**

Nitrogen oxides (NO<sub>x</sub>). Hydrogen fluoride.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute Toxicity

##### Product Information

The product causes burns of eyes, skin and mucous membranes.

##### Inhalation

Causes burns. Corrosive to respiratory system. Inhaled corrosive substances can lead to a toxic edema of the lungs. Contact with moist mucous membranes of the respiratory system can cause caustic condition resulting in burns. Aspiration may cause pulmonary edema and pneumonitis.

##### Eye Contact

Causes burns.

##### Skin Contact

Causes burns.

##### Ingestion

Can burn mouth, throat, and stomach.

The following ATE values have been calculated for the mixture

**ATEmix (oral)** 88,668.20 mg/kg

**ATEmix (inhalation-dust/mist)** 8.3115 mg/l

**ATEmix (inhalation-vapor)** 54.082 mg/l

##### Unknown acute toxicity

4.9 % of the mixture consists of ingredient(s) of unknown acute toxicity.

4.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

4.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

4.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

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 (dust/mist).

##### Component Information

##### 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

| Chemical name         | European Union |
|-----------------------|----------------|
| Beryllium di(acetate) | Carc. 1B       |

##### Reproductive Toxicity

No information available.

##### STOT - single exposure

No information available.

##### STOT - repeated exposure

May cause disorder and damage to the. Nervous system. lungs. Respiratory system.

##### Target organ effects

Skin, Eyes, Respiratory system.

##### Aspiration hazard

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Contains 0 % of components with unknown hazards to the aquatic environment

| Chemical name | Algae/aquatic plants                                                                                                                               | Fish                                                                                                                                                                                                                                                                                                                                                                                                                                         | Crustacea                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Copper        | EC50: 0.0426 - 0.0535mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )<br>EC50: 0.031 - 0.054mg/L (96h, <i>Pseudokirchneriella subcapitata</i> ) | LC50: 0.0068 - 0.0156mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: <0.3mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: =0.2mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: =0.052mg/L (96h, <i>Oncorhynchus mykiss</i> )<br>LC50: =1.25mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: =0.3mg/L (96h, <i>Cyprinus carpio</i> )<br>LC50: =0.8mg/L (96h, <i>Cyprinus carpio</i> )<br>LC50: =0.112mg/L (96h, <i>Poecilia reticulata</i> ) | EC50: =0.03mg/L (48h, <i>Daphnia magna</i> ) |

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Nitric acid   | -2.3                  |

## 12.4. Mobility in soil

### Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

No information available.

| Chemical name | PBT and vPvB assessment |
|---------------|-------------------------|
| Nitric acid   | Not PBT/vPvB            |
| Copper        | Not PBT/vPvB            |

## 12.6. Other adverse effects

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

### Waste from Residues/Unused Products

Dispose of in accordance with federal, state and local regulations.

### Contaminated Packaging

Do not reuse empty containers.

### Other information

Waste codes should be assigned by the user based on the application for which the product was used.

# SECTION 14: Transport information

## IMDG

### 14.1. UN-No

UN3264

### 14.2. Proper shipping name

Corrosive liquid, acidic, inorganic, n.o.s

### 14.3. Transport hazard class(es)

8

|                                                                                                |                                           |
|------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>14.4. Packing Group</b>                                                                     | III                                       |
| <b>Description</b>                                                                             | Not applicable                            |
| <b>14.5. Marine Pollutant</b>                                                                  | None                                      |
| <b>14.6. Special Provisions</b>                                                                | None                                      |
| <b>No information available in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | <b>Transport</b> No information available |

**RID**

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| <b>14.1. UN-No</b>                      | UN3264                                     |
| <b>14.2. Proper shipping name</b>       | Corrosive liquid, acidic, inorganic, n.o.s |
| <b>14.3. Transport hazard class(es)</b> | 8                                          |
| <b>14.4. Packing Group</b>              | III                                        |
| <b>Description</b>                      | Not applicable                             |
| <b>14.5. Environmental hazard</b>       | None                                       |
| <b>14.6. Special Provisions</b>         | None                                       |

**ADR**

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| <b>14.1. UN-No</b>                      | UN3264                                     |
| <b>14.2. Proper shipping name</b>       | Corrosive liquid, acidic, inorganic, n.o.s |
| <b>14.3. Transport hazard class(es)</b> | 8                                          |
| <b>14.4. Packing Group</b>              | III                                        |
| <b>Description</b>                      | Not applicable                             |
| <b>14.5. Environmental hazard</b>       | None                                       |
| <b>14.6. Special Provisions</b>         | None                                       |

**ICAO**

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| <b>14.1. UN-No</b>                | UN3264                                     |
| <b>14.2. Proper Shipping Name</b> | Corrosive liquid, acidic, inorganic, n.o.s |
| <b>14.3. Hazard Class</b>         | 8                                          |
| <b>14.4. Packing Group</b>        | III                                        |
| <b>Description</b>                | Not applicable                             |
| <b>14.5. Environmental hazard</b> | None                                       |
| <b>14.6. Special Provisions</b>   | None                                       |

**IATA-DGR**

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| <b>14.1. UN-No</b>                      | UN3264                                     |
| <b>14.2. Proper shipping name</b>       | Corrosive liquid, acidic, inorganic, n.o.s |
| <b>14.3. Transport hazard class(es)</b> | 8                                          |
| <b>14.4. Packing Group</b>              | III                                        |
| <b>Description</b>                      | Not applicable                             |
| <b>14.5. Environmental hazard</b>       | None                                       |
| <b>14.6. Special Provisions</b>         | None                                       |

|                                           |
|-------------------------------------------|
| <b>SECTION 15: Regulatory information</b> |
|-------------------------------------------|

**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**

**All of the components in the product are on the following Inventory lists:** U.S.A. (TSCA), Europe (EINECS/ELINCS/NLP), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), China (IECSC), Australia (AICS), Korea (ECL).

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>PICCS</b>         | Complies |

|       |          |
|-------|----------|
| ENCS  | Complies |
| IECSC | Complies |
| AIIC  | Complies |
| KECL  | Complies |

**Legend**

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

No information available

**Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

EUH071 - Corrosive to the respiratory tract  
H272 - May intensify fire; oxidizer  
H301 - Toxic if swallowed  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H330 - Fatal if inhaled  
H331 - Toxic if inhaled  
H335 - May cause respiratory irritation  
H350i - May cause cancer by inhalation  
H372 - Causes damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects

Revision date 29-Jan-2026

Reason for Revision Not applicable.

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

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet