

# SAFETY DATA SHEET

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

### 1.1. Product identifier

Product Name CGMG10

Product Description 10000 µg/mL: Magnesium

### 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) |
| Corrosive to metals       | Category 1 - (H290) |

### 2.2. Label elements

#### Product identifier



Signal word  
Warning

Hazard statements

H290 - May be corrosive to metals  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
EUH071 - Corrosive to the respiratory tract

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

P264 - Wash face, hands and any exposed skin thoroughly after handling  
P337 + P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

No information available

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

| Chemical name | EC No (EU Index No) | CAS No.   | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP]              | REACH registration number |
|---------------|---------------------|-----------|----------|------------------------------------------------------------------------------|---------------------------|
| Nitric acid   | 231-714-2<br>0      | 7697-37-2 | 2        | (EUH071)<br>Skin Corr. 1A (H314)<br>Ox. Liq. 3 (H272)<br>Acute Tox. 3 (H331) | 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

**Inhalation** Remove to fresh air.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

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

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

**Most Important Symptoms and Effects** Asthma-like and/ or skin allergy-like symptoms.

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

**Notes to Physician** Treat symptomatically

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable Extinguishing Media

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

**Unsuitable Extinguishing Media**

No information available

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

Thermal decomposition can lead to release of irritating gases and vapors

**5.3. Advice for firefighters**

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

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Ensure adequate ventilation.

**Advice for emergency responders**

Ensure adequate ventilation.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological Information.

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

Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**

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.

**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: 1 ppm<br>STEL: 2.6 mg/m³                             | STEL: 1 ppm<br>STEL: 2.6 mg/m³                                   |                                                             |                                |
| Chemical name            | Italy MDLPS                                                                      | Portugal                                     | Netherlands                                                | Finland                                                          | Denmark                                                     |                                |
| Nitric acid<br>7697-37-2 | STEL: 1 ppm<br>STEL: 2.6 mg/m³                                                   | TWA: 2 ppm<br>STEL: 1 ppm<br>STEL: 2.6 mg/m³ | 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                              |                                |
| 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 ppm<br>Binding STLV: 2.6 mg/m³ | STEL 1 ppm<br>STEL 2.6 mg/m³                 | TWA: 2 ppm<br>TWA: 5 mg/m³<br>STEL: 2 ppm<br>STEL: 5 mg/m³ | TWA: 1.4 mg/m³<br>STEL: 2.6 mg/m³                                | TWA: 2 ppm<br>TWA: 5 mg/m³<br>STEL: 4 ppm<br>STEL: 10 mg/m³ | STEL: 1 ppm<br>STEL: 2.6 mg/m³ |

**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

Long sleeved clothing.

#### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental Exposure Controls** No information available.

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Appearance

clear/ colorless

#### 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

#### Evaporation rate

No data available

#### Flammability (solid, gas)

No data available

#### 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

**SECTION 10: Stability and reactivity****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>).

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute Toxicity**

|                            |                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known or supplied information. |
| <b>Inhalation</b>          | No data available.                                                                        |
| <b>Eye Contact</b>         | No data available.                                                                        |
| <b>Skin Contact</b>        | No data available.                                                                        |
| <b>Ingestion</b>           | No data available.                                                                        |

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

**ATEmix (oral)** 23,000.00 mg/kg

**ATEmix (inhalation-dust/mist)** 25.00 mg/l

**ATEmix (inhalation-vapor)** 132.50 mg/l

**Unknown acute toxicity**

1 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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

1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information**

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>Skin corrosion/irritation</b>         | No information available. |
| <b>Serious eye damage/eye irritation</b> | No information available. |
| <b>Sensitization</b>                     | No information available. |
| <b>Mutagenic Effects</b>                 | No information available. |
| <b>Carcinogenic effects</b>              |                           |
| <b>Reproductive Toxicity</b>             | No information available. |
| <b>STOT - single exposure</b>            | No information available. |
| <b>STOT - repeated exposure</b>          | No information available. |
| <b>Aspiration hazard</b>                 | No information available. |

**SECTION 12: Ecological information****12.1. Toxicity**

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

**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   | The substance is not PBT / vPvB |

**12.6. Other adverse effects**

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

|                                            |                                                                                                                                                                                                                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste from Residues/Unused Products</b> | Dispose of in accordance with federal, state and local regulations.                                                                                                                                            |
| <b>Contaminated Packaging</b>              | Do not reuse empty containers.                                                                                                                                                                                 |
| <b>Other Information</b>                   | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. |

## SECTION 14: Transport information

**IMDG**

|                                                                                                |                                            |
|------------------------------------------------------------------------------------------------|--------------------------------------------|
| <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. 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> | 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 |

|                                  |                |
|----------------------------------|----------------|
| 14.3. Transport hazard class(es) | 8              |
| 14.4. Packing Group              | III            |
| Description                      | Not applicable |
| 14.5. Environmental hazard       | None           |
| 14.6. Special Provisions         | None           |

**ADR**

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

**ICAO**

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

**IATA-DGR**

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

## SECTION 15: Regulatory information

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

#### European Union

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

#### International Inventories

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).

|               |          |
|---------------|----------|
| TSCA          | Complies |
| EINECS/ELINCS | Complies |
| DSL/NDSL      | Complies |
| PICCS         | 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 H-Statements referred to under section 3**

H272 - May intensify fire; oxidizer  
H314 - Causes severe skin burns and eye damage  
H331 - Toxic if inhaled

**Revision Date** 03-Sep-2025

**Reason for Revision** Not applicable.

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

#### **Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet