

## Valagro S.p.A.

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Responsible Care  
L'impegno dell'industria chimica  
per l'ambiente  
la sicurezza la salute

COMPANY WITH  
ENVIRONMENTAL MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
= ISO 14001 =

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001/2000 =



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## SAFETY DATA SHEET (According to Regulation EC n° 1907/2006 REACH)

### 1 – IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Identification of the substance

GliMO

1.2 Intended use

Fertilizer

1.3 Identification of the company/undertaking

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1.4 Emergency telephone

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### 2 – HAZARDS IDENTIFICATIONS

**Classification:** the product is not classified as hazardous according to Directive 99/45/EC

**Principal chemical and physical hazards:** the product does not present any risk in normal handling conditions

### 3 – COMPOSITION/INFORMATION ON INGREDIENTS

**General information on ingredients:**

Product based on ZnEDTA, MnEDTA and organic matter.

### 4 – FIRST AID MEASURES

**Symptoms and effects description**

- **Inhalation:** Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.
- **Skin contact:** Rinse the contaminated part with water and soap. Wash clothes before reuse.
- **Eye contact:** Rinse with water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.
- **Ingestion:** rinse mouth with water. A consistent ingestion may cause irritation. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.



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**5 – FIRE-FIGHTING MEASURES**

The product is not flammable

**Suitable extinguishing media:** water, foam, CO<sub>2</sub>, sand.

**Unsuitable extinguishing media:** not available

**Special exposure hazards caused by substance, combustible products or fumes:** In case of fire noxious fumes (CO, CO<sub>2</sub>, NOx) may be released

**Special protective equipment for fire-fighters:** Use self-contained respiratory equipment and fireproof clothing

**6 – ACCIDENTAL RELEASE MEASURE****Personal precautions (see section 8)**

Wear protective equipment before entering into dangerous area (boots, gloves, glasses)

**Environmental precautions:**

Avoid the product dispersing with earth or non-flammable absorbent material. When possible pick up the product into a clean recipient either to reuse or dump.

**Methods for cleaning up:**

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

**7 – HANDLING AND STORAGE****7.1 Handling****Safety precautions**

- **Local and general ventilation:** Operate in well-ventilated areas far from incompatible and reactive substances
- **Environment protection:** Storage in limited areas with containing device
- **Specific requirement (recommended equipment and handling advice):** Always respect hygienic rules, do not drink neither eat. Avoid eye and skin contact. Use self-protective equipment. Remove all contaminated clothing and wash them before reuse.

**7.2 Storage****Safety conditions**

- **Incompatible products:** not known
- **Storage information:** Keep containers tightly closed in a well-ventilated place.
- **Packing materials recommended:** Plastic packaging



## 8 – PERSONAL PROTECTION/ EXPOSURE CONTROL

### 8.1 Exposure limits

not applicable

### 8.2 Exposure control

Ensure general air exchange

#### 8.2.1 Professional exposure control

**8.2.1.1 Respiratory protection:** Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

**8.2.1.2 Hand protection:** Use long PVC gloves with cuffs

**8.2.1.3 Eye protection:** Protect eye/face.

**8.2.1.4 Skin protection:** follow the usual precautions concerning chemical product handling (i.e. PVC overalls)

**8.2.2 Environmental exposure control:** not applicable

recommended limit inhalable powder : TLV/TWA: 10 mg/m<sup>3</sup>

recommended limit breathable powder: TLV/TWA: 3 mg/m<sup>3</sup>

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 GENERAL INFORMATION

#### Appearance

- **Physical state (25° C):** Microgranules
- **Colour:** Brown
- **Odour** N.A.

### 9.2 IMPORTANT INFORMATION ABOUT HEALTH, SAFETY AND ENVIRONMENT

<b>pH water solution 1%</b>	6.8	25° C
<b>Boiling point/range</b>	N.A.	°C at Pa (1mmHg = 133.32 Pa)
<b>Flammability point/range (liquids)</b>	N.A.	°C open container
<b>Flammability (solids)</b>	N.A.	°C closed container
<b>Flammability (gases, gasiform liquids and solids)</b>	N.A.	Explosion limit inf. % vol.
		Explosion limit sup. % vol.
<b>Explosive properties</b>	N.A.	
<b>Combustive properties</b>	N.A.	mm/s
<b>Vapour pressure</b>	N.A.	kPa at 20° C (1 mmHg = 133.32 Pa)
<b>Relative density</b>	0.77	kg/dm <sup>3</sup>
<b>Solubility</b>		
• <b>Hydro-solubility</b>	300	g/l at 25° C
<b>Partition coefficient (n-octanol/water) Pow</b>	N.A.	Log Pow = at °C
<b>Viscosity</b>	N.A.	Pa.s at °C
<b>Vapour density (air = 1)</b>	N.A.	
<b>Vaporization speed (depending upon...)</b>	N.A.	

### 9.3 OTHER INFORMATION

<b>Auto-ignition</b>	N.A.	°C
<b>Explosion limit (inf.) of powder in air</b>	N.A.	g/m <sup>3</sup>
<b>Decomposition temperature</b>	N.A.	°C

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Apparent density	N.A.	
Solubility in others solvents	N.A.	
Conductivity	0.41	(1‰) mS/cm 18 °C
Group of gases	N.A.	

### 10 – STABILITY AND REACTIVITY

**10.1 Conditions to avoid:** stable in storage and handling recommended conditions

**10.2 Materials to avoid:** avoid contact with strong oxidants

**10.3 Hazardous decomposition products:** CO, CO<sub>2</sub>, NO<sub>x</sub> fumes release in case of very hot temperature

### 11 – TOXICOLOGICAL INFORMATION

**Hazardous effects on health caused by exposure:** not available

**Organs target:** not available

**Symptoms:** not available

**Information about different kind of exposure**

- **Ingestion:** it may cause gastrointestinal irritations or ulcerations
- **Skin and eye contact:** The product may irritate skin and eyes

**Immediate, delayed and chronic effects caused by short or long exposure**

Not applicable

### 12 – ECOLOGICAL INFORMATION

Use according to good working rules, avoid to dispose of the product in the environment.

**12.1 Ecotoxicity:** not available

**12.2 Mobility:**

- **Known or hypothetic distribution in environmental sectors:** soluble product which may release in environmental sectors: water, soil, sediment.

**12.3 Persistence and degradability:**

The product contains biodegradable organic substance which may require a Oxygen Biochemical Question

**12.4 Potential of bioaccumulation:** not available

**12.5 Other hazardous effects:** Not available

### 13 – DISPOSAL INFORMATION

**Safety descriptions and measures upon disposal of surplus and residual:** Product surplus and residual must be handled according to precautions and eventual personal protections indicated in sections 7 and 8

**Suitable disposal of the product**

- **Incineration:** the incineration is possible in authorized stations
- **Dumping:** The product can be disposed of in an authorized dump. The authorization is required before disposing of the product in purification stations.

**Suitable disposal of contaminated packaging:** after cleaning up packing must be recycled as plastic



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### 14 – TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations

### 15 – REGULATORY INFORMATION

**Label information:** not applicable

**Specific community dispositions upon man and environment protection:** not applicable

### 16 – OTHER INFORMATION

#### **Relevant information about safety, health and environment**

- **Professional training information:** The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility the correct use of this product, according to suitable measures of industrial hygiene
- **Information about handling and eventual restrictions:** Do not use the product for different purpose. This may cause not estimated risks
- **Sources:** 1 – Raw materials producers' data  
2 – Limits and IBE about risks caused by chemical agents in working places (Federchimica Ed.2003)

All the information in the safety data above is to our best present knowledge correct and complete. All safety measures are not provided on the safety sheet so other measures in particular conditions can not be requested. It remains the user responsibility to make sure that the information is appropriate and complete for product special use.