

## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the product

Oxalic acid dihydrate

### Manufacturer/supplier identification

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## 2. Hazards identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 4)

Serious eye damage/eye irritation (Category 1)

Skin corrosion (Category 1C)

### Label elements

Pictogram



Signal word Danger

### Hazard statement(s)

H302 + H312 Harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

### Precautionary statement(s)

P264

Wash thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P312

IF SWALLOWED: call a POISON CENTER/doctor/IF you feel unwell.

P330

Rinse mouth.

P302+P352

IF ON SKIN: wash with plenty of water.

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.

P362+P364

Take off contaminated clothing and wash it before reuse..

P501

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental Hazard Statements

## *Synonyms*

Oxalic acid dihydrate

CAS-No.: 6153-56-6

*M*: 126.07 g/mol

Molecular formula: C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>•2H<sub>2</sub>O

## **4. First aid measures**

### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

### **In case of eye contact**

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

### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **5. Fire-fighting measures**

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## **6. Accidental release measures**

### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **7. Handling and storage**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

### **Conditions for safe storage**

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

## **8. Exposure controls/personal protection**

### **Appropriate engineering controls**

General industrial hygiene practice.

### **Personal protective equipment**

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use

in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected PPE (i.e. gloves) from EN 374 specific to this product is EN 374 derived from it.

## Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## 9. Physical and chemical properties

**Form:** crystals

**Colour:** white

**Odour:** not available

**pH value:** 1.3

**Melting point:** 101 °C

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

### Explosion limits

**lower:** not available

**upper:** not available

**Density :** 1.65g/cm<sup>3</sup>

**Bulk density:** not available

### Solubility in

**water (20 °C) :** soluble in water

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## 10. Stability and reactivity

### Chemical stability

no data available

LD50 Oral - Rat - female - 375 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

## **12. Ecological information**

**Toxicity**

Toxicity to fish static test LC50 - *Leuciscus idus melanotus* - 160 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 162.2 mg/l - 48 h

**Persistence and degradability**

Biodegradability aerobic - Exposure time 20 d

Result: 89 % - Readily biodegradable.

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

## **13. Disposal considerations**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

**ADR/RID**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

**IMDG**

# **GHTECH** Material Safety Data Sheet

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UN-Number: - Class: - Packing group: -  
Proper shipping name: Not dangerous goods  
Marine pollutant: no

## **IATA**

UN-Number: - Class: - Packing group: -  
Proper shipping name: Not dangerous goods

### **15. Regulatory information**

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

### **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.