

**MATERIAL SAFETY DATA SHEET****Product Name:** Oxalic acid dihydrate**CAS No.:** 6153-56-6**Version:** 0**1. Identification**

**Product Code** : 90199,90481  
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**2. Hazards Identification****Hazard classification**

Acute toxicity, Oral : Category 4  
Acute toxicity, Dermal : Category 4  
Serious eye damage : Category 1

**Label elements****Hazard symbol**

**Signal word** : Danger  
**Hazard statement** : Harmful if swallowed or in contact with skin  
Causes serious eye damage.  
**Precautionary statement** : Wear protective gloves/ eye protection/ face protection.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
**Supplemental Hazard Statements** : None.

**3. Composition/information on ingredients**

<b>Ingredient</b>	<b>CAS No</b>
Oxalic acid dihydrate	6153-56-6

**MATERIAL SAFETY DATA SHEET****Product Name:** Oxalic acid dihydrate**CAS No.:** 6153-56-6**Version:** 0**4. First Aid Measures****Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation**

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

**Skin contact**

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

**Eye contact**

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

**Swallowed**

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed Treatment**

: No data available

**5. Fire fighting measures****Extinguishing media****Suitable extinguishing media**

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

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

: Carbon oxides

**Advice for firefighters**

: Wear self contained breathing apparatus for firefighting if necessary

**Further information**

: No data available

**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions**

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**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.

**MATERIAL SAFETY DATA SHEET****Product Name:** Oxalic acid dihydrate**CAS No.:** 6153-56-6**Version:** 0**Reference to other sections** : For disposal see section 13.**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, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.**Specific end use(s)** : No data available**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**Personal protective equipment****Eye/face protection** : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).**Skin Protection Hand 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.**Body Protection** : Complete suit protecting against chemicals, 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 required.**9. Physical and Chemical Properties****Appearance** : Colourless crystals free from efflorescence.**Odor** : No data available**pH** : 1 at 126.1 g/l at 25 °C**Melting point/freezing point** : 104 - 106 °C - lit.**Initial boiling point and boiling range** : No data available**Flash Point** : No data available**Vapor pressure** : < 0,01 hPa at 20 °C

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**Vapor density** : No data available  
**Relative density** : No data available  
**Solubility in water** : ca.126,1 g/l at 20 °C  
**Solubility (other)** : No data available  
**Formula** : C<sub>2</sub>H<sub>2</sub>O<sub>4</sub> · 2H<sub>2</sub>O  
**Molecular Weight** : 126.07 g/mol

**10. Stability and Reactivity**

**Reactivity** : No data available  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No data available  
**Conditions to avoid** : Avoid moisture.  
**Incompatible materials** : Bases, Metals, Acid chlorides, Alkali metals  
**Hazardous decomposition products** : No data available

**11. Toxicological Information****Information on toxicological effects**

**Acute toxicity** : LD50 Oral - Rat - 1.080 mg/kg  
**Skin corrosion/irritation** : Mild skin irritation  
**Serious eye damage/eye irritation** : Risk of serious damage to eyes.  
**Respiratory or skin sensitization** : No data available  
**Germ cell mutagenicity** : No data available  
**Carcinogenicity** : 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.  
**Reproductive toxicity** : Possible risk of congenital malformation in the fetus.  
**Specific target organ toxicity - single exposure** : No data available.  
**Specific target organ toxicity - repeated exposure** : No data available  
**Aspiration hazard** : No data available  
**Signs and Symptoms of Exposure** : No data available

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<b>Toxicity</b>	:	Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 160 mg/l - 48 h
<b>Persistence and degradability</b>	:	Biodegradability
<b>Bioaccumulative potential</b>	:	No data available
<b>Mobility in soil</b>	:	No data available.
<b>Other adverse effects</b>	:	No data available.

**13. Disposal consideration**

<b>Disposal instructions</b>	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
<b>Contaminated packaging</b>	:	Dispose of as unused product.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>			Not dangerous goods		
<b>IMDG</b>			Not dangerous goods		
<b>IATA</b>			Not dangerous goods		

**15. Regulatory Information**

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

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date** :01/08/2014**Version** : 0

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