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## MATERIAL SAFETY DATA SHEET (MSDS)

### MELDRUM'S ACID (2,2-DIMETHYL-1,3-DIOXANE-4-6-DIONE)

#### 1. Product Identification

**MSDS Name:** Meldrum's acid

Synonyms: 2,2-Dimethyl-1,3-dioxane-4,6-dione

**CAS No.:** 2033-24-1

Product Coad: M0132005000

Formula : C<sub>6</sub>H<sub>8</sub>O<sub>4</sub>

Molecular weight : 144.13 g/mol

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	%	EINECS#
Meldrum's acid	2033-24-1		217-24-1

#### 3. Hazards Identification

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements Not a hazardous substance or mixture.

Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 4. First Aid Measures

Description of first aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed 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

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#### **6. Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

Environmental precautions No special environmental precautions required.

Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal

Reference to other sections For disposal see section 13.

#### **7. Handling and Storage**

Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C Storage class (TRGS 510): Non Combustible Solids

Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **8. Exposure Controls/Personal Protection**

Control parameters

Exposure controls

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 protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard 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 workplace. 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 le (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 No special environmental precautions required.

#### **9. Physical and Chemical Properties**

Information on basic physical and chemical properties

a) Appearance Form: crystalline Colour: beige

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting point/freezing point Melting point/range: 92 - 96 °C - lit.

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- f) Initial boiling point and boiling range No data available
- g) Flash point No data available
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits No data available
- k) Vapour pressure No data available
- l) Vapour density No data available
- m) Relative density No data available
- n) Water solubility No data available
- o) Partition coefficient: noctanol/water No data available
- p) Auto-ignition temperature No data available
- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

**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 No data available

Incompatible materials Strong oxidizing agents

 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products -  
 No data available In the event of fire: see section 5

**11. Toxicological Information**

Information on toxicological effects

Acute toxicity LD50 Intravenous - Mouse - 180 mg/kg(2,2-Dimethyl-1,3-dioxane-4,6-dione)

Skin corrosion/irritation No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione)

Serious eye damage/eye irritation No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione)

Respiratory or skin sensitisation No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione)

Germ cell mutagenicity No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione)

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**MATERIAL SAFETY DATA SHEET (MSDS)****MELDRUM'S ACID (2,2-DIMETHYL-1,3-DIOXANE-4-6-DIONE)**

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.

Reproductive toxicity No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione)

Specific target organ toxicity - single exposure No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione) Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione)

Additional Information RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(2,2-Dimethyl-1,3-dioxane-4,6-dione)

**12. Ecological Information**

Toxicity No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available(2,2-Dimethyl-1,3-dioxane-4,6-dione)

Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects No data available

**13. Disposal Considerations**

Waste treatment methods

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

Contaminated packaging Dispose of as unused product.

**14. Transport Information**

Not regulated.

**15. Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Chemical safety assessment For this product a chemical safety assessment was not carried out

**16. Other Information**

**Product Use:** Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**