SAFETY DATA SHEET



1. Identification of Substance / Mixture

Product Identifier

Product Name 2,2-Dimethyl-1,3-dioxane-4,6-dione

Other Names meldrums acid

Product Code IL-MU2

CAS 2033-24-1

MDL MFCD00006638

EINECS N/A

REACH Registration Number

Relevant Uses Research and Development

Uses Advised Against No uses advised against.

Supplier Details

Company ISOMERLAB D.O.O.

Address TRZASKA CESTA 297A , SI-1000 LJUBLJANA SLOVENIA

Telephone +38640764332

Email INFO@ISOMERLAB.COM

Emergency Telephone 112

2. Hazards Identification

Classification Skin Irrit. 2 Aquatic Acute 1

Aquatic Chronic 2

Signal Word WARNING

Pictograms





Hazards H315 Causes skin irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P321 Specific treatment.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Other Classification Hazards

3. Composition of Ingredients

SUBSTANCE

Precautions

Name CAS Einecs Composition Hazards

2,2-Dimethyl-1,3-dioxane-4,6- 2033-24-1 N/A <= 100% H315 Skin

H315 Skin Irrit. 2 H400 Aquatic Acute 1 H411 Aquatic Chronic 2

4. First Aid Measures

Eye contact Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If victim begins to feel unwell, Inhalation

seek urgent medical advice.

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing Skin Contact

immediately. In case of skin reactions, consult a physician.

No additional advice

No known symptoms or effects. Most Important Symptoms and Effects

No additional first aid measures required. **Immediate First Aid Measures**

5. Fire Fighting Measures

Ingestion

General Advice

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Suitable Fire Extinguishing Media

No known unsuitable media. Unsuitable Fire Extinguishing Media

Thermal decomposition can lead to release of irritating gases and vapours. Special Hazards

As in any fire, wear self-contained breathing apparatus and full protective gear. Advice for Fire Fighters

6. Accidental Release Measures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate **Personal Precautions**

ventilation. Keep personnel away from spill/leak.

Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterways **Environmental Precautions**

or sewer systems. Discharge into the environment must be avoided.

Spill Response should only be carried out by trained or qualified personnel. **Containment - Methods and Materials**

For personal protection see section 8. For disposal see section 13. **Referenced SDS Sections**

7. Handling and Storage

Personal Precautions

Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate Safe Handling

ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For

precautions see section 2.2.

Where possible, use anti static and spark proof equipment when handling. **Protection Against Explosion and Fire**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not **General Occupational Hygiene**

eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Conditions for Safe Storage and Incompatabilities

Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place. **Managing Storage Risks**

No special requirements **Storage Controls**

Keep container tightly closed in a cool area away from sunlight or heat sources. Maintaining Integrity

No other specific advice available. Other Advice

No specific end uses are advised. The products supplied are for research purposes only. Specific End Use(s)

8. Exposure Controls / Personal Protection

Control Parameters

Ceiling Other Country Info Long Short Short Ceiling Remarks Long Term Term Term Term (ppm) (mgm3) Unit (ppm) (mgm3) (ppm) (mgm3)

Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-**Engineering Measures** proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the

workstation location.

Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand. **Face Protection**

Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU Directive **Hand Proection** 89/686/EEC and the standard EN374 derived from it. 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.

Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of protective equipment must be selected according to the concentration and amount of the

standards. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed

under normal use conditions.

Ensure hair or skin particles cannot enter the chemical container.

Environment Exposure Controls Avoid discharge into the environment, see section 6.2.

9. Physical and Chemical Properties

State Solid

Appearance Off-white solid

Odour No data available.

Odour Threshold No data available.

pH No data available.

Melting Point / Freezing Point 92 to 96°C

Initial Boiling Point No data available.

Boiling Range No data available.

Flash Point No data available.

Evaporation Rate No data available.

Flammability No data available.

Upper / Lower Flammability or Explosion

Limits

Skin Protection

Respiratory Protection

Hygiene Protection

No data available.

No data available.

Vapour Pressure No data available.

Vapour Density No data available.

Relative Density No data available.

Solubility No data available.

Partion Coefficient No data available.

Auto Ignition Temperature No data available.

Decomposition Temperature No data available.

Viscosity No data available.

No data available.

Oxidising Properties No data available.

Other information No additional information available

10. Stability and Reactivity

Explosive Properties

Reactivity No known reactivity, based on information available.

Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal storage conditions.

Conditions To Avoid Excess heat. Exposure to moisture.

Incompatible Materials Strong oxidising agents.

Hazardous Decomposition Products

No Data Available.

11. Toxicology Information

Acute Toxicity

No Toxicology data available for this product.

Skin Corrosion / Irritation No Toxicology data available for this product.

Serious Eye Damage / Irritation No Toxicology data available for this product.

No Toyinglamy data available for this produ

Respiratory or Skin Sensitisation No Toxicology data available for this product.

Germ Cell Mutagenicity No Toxicology data available for this product. No Toxicology data available for this product. Carcinogencity No Toxicology data available for this product. **Reproductive Toxicity** No Toxicology data available for this product. STOT-single Exposure No Toxicology data available for this product. STOT-repeated Exposure No Toxicology data available for this product. **Aspiration Hazard** No Toxicology data available for this product. **Additional Toxicology Information**

12. Ecological Information

No Ecological data available for this product. **Toxicity** No Ecological data available for this product. Persistence and Degradability No Ecological data available for this product. **Bio-Accumulative Potential** No Ecological data available for this product. Mobility in Soil No Ecological data available for this product. Results of PBT and vPvB assessment No Ecological data available for this product. **Endocrine Disrupting Properties** Avoid release to the environment. Other Adverse Effects

13. Disposal Considerations

Ensure product is disposed of by licensed waste carriers. **Disposal Operations**

Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be **Disposal of Packaging**

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recyclable if not contaminated.

ADR UN Number

14. Transport Information

IATA UN Number

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IATA Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(2,2-Dimethyl-1,3- dioxane-4,6-dione)	ADR Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(2,2-Dimethyl-1,3- dioxane-4,6-dione)	IMDG Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(2,2-Dimethyl-1,3-dioxane-4,6-dione)
IATA Packing Group	III	ADR Packing Group	III	IMDG Packing Group	III
IATA Hazard Class	9	ADR Hazard Class	9	IMDG Hazard Class	9
IATA Sub Class		ADR Sub Class		IMDG Sub Class	-
				IMDG Special Provisions	
				IMDG IBS Instructions	
				IMDG IBC Instructions	IBC08
				IMDG Tank Instructions	T1, BK2, BK2, BK3
				IMDG Tank Provisions	TP33

15. Regulatory Information

16. Other Information

As far as ISOMERLAB is aware, there are no further regulations controlling this product. **Regulatory Information**

No Chemical Safety Assessment available for this product. **Chemical Safety Assessment**

Information Not Covered in Other Sections

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road) RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

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IMDG UN Number

Revision

Date Modified

Disclaimer

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

1.336

03/11/2022

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006.