

Manufacturers of Sodium Amide, Sodium Alkoxides, Sodium Hydride, Sodium Azide, Tetrazoles, Amino Pyridines, Pyridine Derivatives, Cyclic Compounds, Fine Chemicals, Oleo Chemicals & Oleoresins

MATERIAL SAFETY DATA SHEET MELDRUM'S ACID

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name : Meldrum's acid
Synonyms : 2,2-Dimethyl-1,3-dioxane-4,6-dione,
Malonic acid cyclic isopropylidene ester

Company Identification

Alkali Metals Ltd.,
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SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name
[2033-24-1]	Meldrum's acid

Hazard symbols : XI
Risk phrases : 36 / 37 / 38

SECTION 3 - HAZARDS IDENTIFICATION

Emergency over view

Irritating to eyes, respiratory system and skin.

Potential health effects:

Eye : Causes eye irritation.
Skin : Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion : May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation : May cause respiratory tract irritation. May be harmful if inhaled.

SECTION 4 - FIRST AID MEASURES

Eyes : Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin : Flush skin with plenty of water while removing contaminated clothing and shoes. Get medical aid.
Ingestion : Wash mouth out with water. Get medical aid.
Inhalation : Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician : Not available.

SECTION 5 - FIRE FIGHTING MEASURES

General : As in any fire, wear a self-contained breathing apparatus and full protective Information gear.

Extinguishing: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Media

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information : Use proper personal protective equipment.

Spills/Leaks : Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 - HANDLING AND STORAGE

Handling : Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. **Storage** : Store in a dry place. Store in a tightly closed container. Keep under nitrogen blanket. Keep away from sources of ignition.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Exposure limits : CAS # 2033-24-1 : Not available

Personal Protective Equipment:

Eyes : Wear chemical safety goggles.

Skin : Wear appropriate protective gloves to prevent skin exposure.

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : Wear appropriate respirators where necessary.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Crystals
Appearance	:	White to light brown – beige brown
Odor	:	Not available.
PH	:	2.5 (Saturated solution)
Vapor Pressure	:	Not available
Viscosity	:	Not available.
Boiling Point	:	Not available.
Freezing/Melting Point	:	92 - 96 deg C
Autoignition Temperature	:	Not available.
Flash Point	:	Not available.
Explosion Limits, lower	:	Not available.
Explosion Limits, upper	:	Not available.
Decomposition Temperature	:	Not available.
Solubility in water	:	2.5 g/100 ml (20°C)
Specific Gravity/Density	:	Not available.
Molecular Formula	:	C ₆ H ₈ O ₄

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability : Stable under normal temperatures and pressures.
Conditions to avoid : Incompatible materials, exposure to moist air or water.
Incompatibilities with other Materials : Strong oxidizing agents
Hazardous decomposition products: Carbon monoxide, carbon dioxide.
Hazardous polymerization: Not available.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS# : CAS # 2033-24-1 Not available
LD50/LC50 : RTECS CAS# 2033-24-1 Not available.
Carcinogenicity : 2,2-Dimethyl-1,3-dioxane-4,6-dione. - Not listed as carcinogen by ACGIH, IARC, NTP.

SECTION 12 - ECOLOGICAL INFORMATION

Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

	IATA	IMO	RID / ADR
Shipping Name	Not a dangerous product	Not a dangerous product	Not a dangerous product
Hazard class	--	--	--
UN Number	--	--	--
Packing Group	--	--	--

Section 15 – Regulatory Information

European/International Regulations :

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Risk Phrases:

R 36/37/38 Irritating to eyes respiratory system and skin

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 37/39 Wear suitable gloves and eye/face protection

WGK (Water Danger/Protection)

CAS# 2033-24-1 : Not available

CANADA

CAS# 2033-24-1 is listed on Canada's DSL List.

US FEDERAL

TSCA

CAS# 2033-24-1 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Alkali Metals Ltd., be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the Alkali Metals Ltd., has been advised of the possibility.

