

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 3,3-Dimethylacrylic acid  
 Product Number : D138806  
 Brand : Aldrich  
 Company : Sigma-Aldrich Canada, Ltd  
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 OAKVILLE ON L6H 6J8  
 CANADA  
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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 3,3-Dimethylacrylic acid  
 3-Methyl-2-butenoic acid  
 Senecioic acid  
 3-Methylcrotonic acid  
 Formula : C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>  
 Molecular Weight : 100.12 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>3-Methylcrotonic acid</b>			
541-47-9	208-782-7	-	-

**3. HAZARDS IDENTIFICATION**

**WHMIS Classification**  
 D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant  
 Moderate respiratory irritant  
 Moderate eye irritant

**HMS Classification**  
 Health Hazard: 2  
 Flammability: 1  
 Physical hazards: 0

**Potential Health Effects**

**Inhalation** : May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** : May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes** : Causes eye irritation.  
**Ingestion** : May be harmful if swallowed.

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**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**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****Flammable properties**

Flash point : 93.4 °C (200.1 °F) - closed cup

Ignition temperature : no data available

**Suitable extinguishing media**

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

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

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

**7. HANDLING AND STORAGE****Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

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

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form : solid

**Safety data**

pH : no data available

Melting point : 65 - 70 °C (149 - 158 °F)

Boiling point : 194 - 195 °C (381 - 383 °F)

Flash point : 93.4 °C (200.1 °F) - closed cup

Ignition temperature : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Water solubility : no data available

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Bases, Oxidizing agents, Reducing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 3,560 mg/kg

LD50 Dermal - rabbit - > 3,200 mg/kg

**Irritation and corrosion**

Skin - rabbit - Skin irritation - 24 h

Eyes - rabbit - Severe eye irritation - 24 h

**Sensitisation**

no data available

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**Chronic exposure**

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.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Potential Health Effects**

**Inhalation** : May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** : May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** : Causes eye irritation.

**Ingestion** : May be harmful if swallowed.

**Additional Information**

RTECS: GQ5425000

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION****DSL Status**

All components of this product are on the Canadian DSL list.

**WHMIS Classification**

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant  
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Moderate eye irritant

**16. OTHER INFORMATION****Further information**

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