



Banff Green Technologies, Inc

TEL: 86-21-54795870 FAX: 86-21-54795870 Email: sales@banffgt.com
ADDRESS: Floor 29, CapitaMalls Plaza, No. 6088 Humin Rd., Minhang Dist., Shanghai 201100, China

Material Safety Data Sheet

Name:	Dimethyl fluoromalonate 98%(Min,GC)
Synonym:	2-fluoro-malonic acid dimethyl easter; 2-fluoro-4-methoxyacetoacetic acid methyl ester; Butyric acid, 2-fluoro-3-oxo-4-methoxy-, methyl ester; Dimethyl 2-fluoromalonate; Methyl 2-fluoro-4-methoxyacetoacetate; Fluoro-malonicaciddimethylester
CAS:	344-14-9

★ Section 1 - Chemical Product 98%(Min,GC)

MSDS Name: Dimethyl fluoromalonate

Synonyms: 2-fluoro-malonic acid dimethyl easter; 2-fluoro-4-methoxyacetoacetic acid methyl ester; Butyric acid, 2-fluoro-3-oxo-4-methoxy-, methyl ester; Dimethyl 2-fluoromalonate; Methyl 2-fluoro-4-methoxyacetoacetate; Fluoro-malonicaciddimethylester

★ Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	emsds	EINECS#
344-14-9	Dimethyl fluoromalonate	98%(Min,GC)	

Hazard

Symbols:

C

Risk Phrases: R 34

★ Section 3 - FIRST AID MEASURES

Eyes:

Immediately flush with running water for at least 20 minutes. Contact with molten substance may cause severe burns to skin and eyes.

Skin:

Remove and isolate contaminated clothing and shoes. Immediately flush with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin. Contact with molten substance may cause severe burns to skin and eyes.

Ingestion:

Seek medical assistance.



Banff Green Technologies, Inc

TEL: 86-21-54795870 FAX: 86-21-54795870 Email: sales@banffgt.com
ADDRESS: Floor 29, CapitaMalls Plaza, No. 6088 Humin Rd., Minhang Dist., Shanghai 201100, China

Inhalation:

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. TOXIC; inhalation, ingestion, or skin contact with material may cause severe injury or death. Effects of contact or inhalation may be delayed.

Notes to Physician:

★ Section 4 - FIRE FIGHTING MEASURES

General Information:

When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.

Combustible material: may burn but does not ignite readily.

Small Fires: Dry chemical, carbon dioxide or water spray.

Large Fires: Dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

★ Section 5 - ACCIDENTAL RELEASE MEASURES

ELIMINATE all ignition sources. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. DO NOT GET WATER INSIDE CONTAINERS.

★ Section 6 - HANDLING and STORAGE

★ Section 7 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Respirators:

Wear positive pressure self-contained breathing apparatus (SCBA).

Skin:

Wear appropriate protective gloves, clothing and goggles.



Banff Green Technologies, Inc

TEL: 86-21-54795870 FAX: 86-21-54795870 Email: sales@banffgt.com
ADDRESS: Floor 29, CapitaMalls Plaza, No. 6088 Humin Rd., Minhang Dist., Shanghai 201100, China

★ Section 8 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid above 30° C, solid under 30° C.

Color: colorless to pale yellow

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 76 ° C

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: 111-112° C/45mm

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density: 1.1290g/cm³

Molecular Formula: C₅H₇FO₄

Molecular Weight: 150.1

★ Section 9 - STABILITY AND REACTIVITY

Fire may produce irritating, corrosive and/or toxic gases.

★ Section 10 - TOXICOLOGICAL INFORMATION

★ Section 11 - ECOLOGICAL INFORMATION

★ Section 12 - DISPOSAL CONSIDERATIONS

★ Section 13 - TRANSPORT INFORMATION



Banff Green Technologies, Inc

TEL: 86-21-54795870 FAX: 86-21-54795870 Email: sales@banffgt.com

ADDRESS: Floor 29, CapitaMalls Plaza, No. 6088 Humin Rd., Minhang Dist., Shanghai 201100, China

【UN Number】

3265

★ Section 14 - REGULATORY INFORMATION

