Matrix Scientific

PO BOX 25067 COLUMBIA, SC 29224-5067 Telephone: 803-788-9494 Fax: 803-788-9419

SAFETY DATA SHEET Transportation Emergency: 3E Co. (5025) 800-451-8346

1. Product Identification

Name Diethyl fluoromalonate				
Catalog Number	004404			
CAS Registry Number	[685-88-1]			
Company	Matrix Scientific			
Physical Address	131 Pontiac Business Center Drive			
	Elgin, SC 29045			
	USA			
Telephone/Fax	(803)788-9494/(803)788-9419			

2. Hazard Identification

Hazardous Ingredients	Diethyl fluoromalonate
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GHS label elements, including precautionary statements

Pictogram



Signal word DANGER

Hazard statement(s) H301 H302 H314 H315 H318 H319 H335	Toxic if swallowed Harmful if swallowed Causes severe skin burns and eye damage Causes skin irritation Causes serious eye damage Causes serious eye irritation May cause respiratory irritation	
Precautionary statement(s)		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P261	Avoid breathing dust/fume/ gas/mist/vapours/spray.	
P301+310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/	
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.	
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue	

P501

rinsing. Dispose of contents/container to ... [... in accordance with local/regional/national/international regulation (to be specified)].

3. Composition, Information or Ingredients

Name Diethyl fluoromalonate

4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes with clean, running water for at least 15 minutes while keeping eyes open. Cool water may be used. Seek medical attention.
Skin Contact:	After contact with skin, wash with generous quantities of running water. Gently and thoroughly wash affected area with running water and non- abrasive soap. Cool water may be used. Cover the affected area with emollient. Seek medical attention. Wash any contaminated clothing prior to reusing.
Inhalation:	Remove the victim from the source of exposure to fresh, uncontaminated air. If victim's breathing is difficult, administer oxygen. Seek medical attention.
Ingestion:	Do NOT induce vomiting. Give water to victim to drink. Seek medical attention.

5. Fire-Fighting Measures

Extinguishing media: Special fire fighting	Carbon dioxide, dry chemical powder, alcohol or polymer foam.	
procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	
Unusual fire and explosion hazards/ decomposition of		
product:	Emits toxic fumes under fire conditions.	

6. Accidental Release Measures

Steps to be taken if material is spilled or otherwise released into the environment - Wear Appropriate respirator, impervious boots and heavy rubber (or otherwise impervious) gloves. Scoop up solid material or absorb liquid material and place into appropriate container. Ventilate area and wash affected spill area after pickup is complete. Wash skin immediately with plenty of water. Place solid or absorbed material into containers and close for disposal.

7. Handling and Storage

Avoid prolonged exposure. Use caution when handling. Exposure to any chemical should be limited. Do not breath dust or vapor. Have safety shower and eye wash available. Do not get in eyes, on skin or on clothing. Keep container tightly closed. Store in a cool, dry, well-ventilated place. Ensure adequate ventilation during use. Use only in a chemical fume hood. To the best of our knowledge, the health hazards of this product have not been fully investigated. This product is provided solely for the purpose of research and development.

8. Exposure Controls and Personal Protection

Wear Protective safety goggles. Wear chemical-resistant gloves. Wear protective clothing and chemical resistant boots. Ensure ventilation during use. After contact with skin, wash immediately.

9. Physical and Chemical Properties

Appearance: liquidMolecular Formula:C7H11FO4Molecular Weight:178.16Boiling point (C):121-123°/30 TorrDensity (g/ml):1.1475/20°Index of refraction:1.4070

10. Stability and Reactivity

Incompatibilities: Strong oxidizing agents Strong acids and bases Hazard Decomposition Products Carbon carbon monoxide carbon dioxide Fluorine hydrogen fluoride

11. Toxicological Information

Acute effects:

Irritant

May be harmful by ingestion and inhalation.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the toxicological properties of this product have not been fully investigated or determined.

12. Ecological Information

Mobility:	Data not known
Persistence and	
degradability:	No data available
Cumulative potential:	No data available
Other adverse effects:	No data available

13. Disposal Considerations

Absent other actions demanded by federal or local regulations - Dissolve or mix the material with a combustible solvent and burn in a regulated, chemical incinerator equipped with after burner and scrubber.

Observe all federal, state and local laws.

14. Transport Information

Shipping NameCorrosive liquid, toxic, n.o.s.Class / Sub-Class8 / 6.1UN NumberUN2922Packing GroupIIInhalation Hazard Zone

15. Regulatory Information

Adhere to all Federal, State and local regulations.

16. Other Information

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product.