

Safety Data Sheet

FC22-MTFMP

Methyl 2,2,3,3-Tetrafluoro-3-(methoxy)propionate

Revised 02-January-2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Methyl 2,2,3,3-tetrafluoro-3-

(methoxy)propionate

Catalog Number FC22-MTFMP

• CAS Number 755-73-7

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Synthesis of

substances

Supplier Fluoryx Labs

3650 Research Way, #22 Carson City, NV 89706

USA

Emergency call (VelocityEHS): +01-813-248-0585 (International)

+1-800-255-3924 (USA)

2. HAZARDS INFORMATION

Classification of the substance or mixture

GHS Classification Flammable liquids (Category 3), H225

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in the Section, see Section 16

GHS Label elements, including precautionary statements

Pictogram Signal word **(!)**

Warning

Hazard statement(s)

H226 Flammable liquid and vapor H315 Causes skin irritation

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot

surfaces. No smoking.

P271 Use only outdoors or in a well-ventilated area.

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P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

3. COMPOSITION AND INFORMATION ON INGREDIENTS		
Synonyms	Propanoic acid, 2,2,3,3-tetrafluoro-3-methoxy-, methyl ester Methyl 3-methoxytetrafluoropropanoate Methyl 2,2,3,3-tetrafluoro-3-methoxypropionate	
Chemical formula	$C_5H_6F_4O_3$	
Molecular weight	190.09 g/mol	

Component	Classification	Concentration
Methyl 2,2,3,3-tetrafluoro-3- (methoxy)propionate	Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3;	≤ 100%
· · · · ·	H225, H315, H319, H335	

755-73-7

For the full text of the H-Statements mentioned in this Section, see Section 16.

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. Consult a physician

If swallowed Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Rinse mouth with

water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Section 11

Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

Suitable extinguishing mediaDry powder.Dry sand.Unsuitable extinguishing mediaDo NOT use water jet.

Special hazards arising from the substance or mixture - Carbon oxides, hydrogen fluoride

Advice for firefighters Wear self-contained breathing apparatus for

firefighting if necessary.

Further information Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas.

For personal protection see section 8.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods for cleaning up Contain spillage, and then collect with non-

combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national

regulations (see section 13).

Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with skin and eyes. Avoid inhalation of

vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-

up of electrostatic charge.

For precautions see section 2.2.

Conditions for Safe Storage Keep container tightly closed in a dry and well-

ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): 3: Flammable

liquids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no

other specific uses are stipulated

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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Control parameters

Components with workplace control parameters Contains no substances with occupational exposure

limit values.

Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene

and safety practice. Wash hands before breaks and

at the end of workday.

Personal protective equipment

Eye/face protection Face shield and safety glasses Use equipment for

eve protection tested and approved under

appropriate government standards such as NIOSH

(US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior

> to use. 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.

Body Protection Impervious clothing, Flame retardant antistatic

> protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous

substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying

> respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid, clear Colorless Color

Safety Data

Upper Explosion Limit

рН No data available Melting Point/Freezing Point No data available **Boiling Point** 159 °C @ 760 mm Hg Flash Point 48 °C (closed cup) Ignition Temperature No data available Auto-ignition Temperature No data available No data available Lower Explosion Limit No data available

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Thermal Decomposition Temperature

Vapor Pressure

Density

No data available

No data available

1.331 g/mL @ 25 °C

Water Solubility

No data available

Partition Coefficient (*n*-octanol/water)

No data available

Relative Vapor Density (Air = 1) > 1

Odor No data available
Odor Threshold No data available
Evaporation Rate No data available

Refractive index 1.3327

Viscosity No data available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions Hazardous reactions will not occur under normal

transport or storage conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong oxidizing agents, strong acids.

Hazardous decomposition products Hazardous decomposition products formed under

fire conditions. - Carbon oxides, Hydrogen fluoride Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Other information on acute toxicity

Acute toxicity

Dermal LD50

Oral LD50 No data available

Inhalation LCLo Rat, 2100 ppm/4H. Note: behavior changes in

motor activity.
No data available

No data available

Skin corrosion/irritationNo data available

Serious eye damage/eye irritationNo data availableRespiratory or skin sensitizationNo data available

Germ cell mutagenicity

No data available

Carcinogenicity

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens NTP: No component of this product present at levels

greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity (Globally Harmonized System)

Single exposure May cause respiratory irritation.

Repeated exposure No data available
Aspiration hazard No data available

Additional Information To the best of our knowledge, the chemical,

physical, and toxicological properties have not

been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bioaccumulative Potential

No data available

Mobility in Soil

No data available

PBT and vPvB Assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product Offer surplus and non-recyclable solutions to a

licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber. Contact a licensed professional waste disposal service to dispose of this material. Contact Fluoryx Labs to return unused product.

Contaminated packaging Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT (US) UN number: 1993

Class: 3

Packing group: III

Proper shipping name: Flammable Liquid, n.o.s.

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG UN number: 1993

Class: 3

Packing group: III

Proper shipping name: Flammable Liquid, n.o.s.

IATA UN number: 1993

Class: 3

Packing group: III

Proper shipping name: Flammable Liquid, n.o.s.

15. REGULATORY INFORMATION

TSCA Status Listed.

EC Number 212-048-1

Canadian NDSL (Non-Domestic Substances List) Listed Japanese ISHL (Industrial Safety and Health Law) Listed

SARA 302 Components No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section

302.

SARA 313 Components This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

SARA 311/312 Hazards No SARA hazards.

Massachusetts Right To Know Components No components are subject to the Massachusetts

Right to Know Act.

Pennsylvania Right To Know Components No components are subject to the Pennsylvania

Right to Know Act.

New Jersey Right To Know Components No components are subject to the NewJersey

Right to Know Act.

California Prop. 65 Components This product does not contain any chemicals

known to State of California to cause cancer, birth

defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information:

Full text of H-phrases:

Eye Irrit. 2A Serious eye damage/eye irritation, Category 2A Flammable liquid and vapor, Category 3 Flam. Liq. 3 Skin corrosion/irritation, Category 2 Skin Irrit. 2 STOT SE 3

Specific target organ toxicity (single exposure),

Category 3

H226 Flammable liquid and vapor H315 Causes skin irritation H319 Causes serious eye irritation H335

May cause respiratory irritation

NFPA Ratings

Health hazard 3 - Short exposure could cause serious temporary

or residual injury even though prompt medical

attention was given.

Fire hazard 3 – Liquids and solids that can be ignited underal

most all ambient conditions.

0 - Normally stable, even under fire exposure Reactivity

conditions, and are not reactive with water.

HMIS III Rating

Health 2 - Moderate Hazard - Temporary or minor injury

may occur.

3 - Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F.

(Classes IB & IC)

Flammability

Physical

0 - Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of MSDS