# Material Safety Data Sheet Methyl trifluoroacetate, 99%

ACC# 63510

# Section 1 - Chemical Product and Company Identification

MSDS Name: Methyl trifluoroacetate, 99%

Catalog Numbers: AC243410000, AC243410050, AC243410250

Synonyms: Acetate, trifluoro-, methyl; Acetic acid, trifluoro-, methyl ester

Company Identification:

Acros Organics N.V.

One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01 For emergencies in the US, call CHEMTREC: 800-424-9300

# Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
431-47-0	Methyl trifluoroacetate	99	207-074-5

### Section 3 - Hazards Identification

#### **EMERGENCY OVERVIEW**

Appearance: colorless clear liquid. Flash Point: -7 deg C.

**Danger!** Extremely flammable liquid. Lachrymator (substance which increases the flow of tears). May cause respiratory and digestive tract irritation. May cause eye and skin irritation. May cause central nervous system depression. The toxicological properties of this material have not been fully investigated.

Target Organs: Central nervous system, respiratory system, eyes, skin.

#### **Potential Health Effects**

**Eye:** Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. Lachrymator (substance which increases the flow of tears). May cause chemical conjunctivitis and corneal damage.

Skin: Causes skin irritation. May cause dermatitis. May cause cyanosis of the extremities.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated. Ingestion of large amounts may cause CNS depression.

**Inhalation:** The toxicological properties of this substance have not been fully investigated. Aspiration may lead to pulmonary edema. Vapors may cause dizziness or suffocation. May cause burning sensation in the chest.

Chronic: Effects may be delayed.

# Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid imme diately. Do NOT allow victim to rub eyes or keep eyes closed.

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation 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.

Notes to Physician: Treat symptomatically and supportively.

# Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Extremely flammable liquid and vapor. Containers may explode in the heat of a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Will be easily ignited by heat, sparks or flame.

**Extinguishing Media:** Use water spray to cool fire-exposed containers. Water may be ineffective. Use water spray, dry chemical, carbon dioxide, or chemical foam. Do NOT use straight streams of water. **Flash Point:** -7 deg C ( 19.40 deg F)

Flash Point: -7 deg C ( 19.40 deg F) Autoignition Temperature: Not applicable. Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 3; Instability: 0

### Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

# Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from heat, sparks, and flame. Store in a tightly closed container. Poison room locked/refrigerator. Refrigerator/flammables. Store in a cool, dry area away from incompatible substances.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methyl trifluoroacetate	none listed	none listed	none listed

OSHA Vacated PELs: Methyl trifluoroacetate: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment** 

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### Section 9 - Physical and Chemical Properties

Physical State: Clear liquid Appearance: colorless Odor: ester-like pH: Not available.

Vapor Pressure: 5.77 psi @ 20 deg C

Vapor Density: 4.41

Evaporation Rate:Not available. Viscosity: 0.36 cSt 20 deg C Boiling Point: 43 - 43.5 deg C Freezing/Melting Point:-78 deg C

**Decomposition Temperature:**Not available.

Solubility: 8 g/l water

Specific Gravity/Density:1.2730g/cm3 Molecular Formula:CF3CO2CH3 Molecular Weight:128.05

# Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. **Conditions to Avoid:** Incompatible materials, ignition sources, excess heat. **Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen fluoride gas.

Hazardous Polymerization: Will not occur.

### Section 11 - Toxicological Information

RTECS#:

CAS# 431-47-0 unlisted.

LD50/LC50: Not available.

Carcinogenicity:

CAS# 431-47-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found **Teratogenicity:** No information found **Reproductive Effects:** No information found **Mutagenicity:** No information found

Neurotoxicity: No information found

Other Studies:

# Section 12 - Ecological Information

No information available.

### Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

# Section 15 - Regulatory Information

### **US FEDERAL**

#### **TSCA**

CAS# 431-47-0 is listed on the TSCA inventory.

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

# SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

### **Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

CAS# 431-47-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

# European/International Regulations European Labeling in Accordance with EC Directives

# Hazard Symbols:

T+F

#### **Risk Phrases:**

R 11 Highly flammable.

R 28 Very toxic if swallowed.

### Safety Phrases:

- S 16 Keep away from sources of ignition No smoking.
- S 20 When using do not eat or drink.
- S 22 Do not breathe dust.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### WGK (Water Danger/Protection)

CAS# 431-47-0: No information available.

Canada - DSL/NDSL

CAS# 431-47-0 is listed on Canada's NDSL List.

# Canada - WHMIS

This product has a WHMIS classification of B2, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List** 

# Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997 **Revision #6 Date:** 10/03/2005

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 event shall Fisher 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 Fisher has been advised of the possibility of such damages.