

# MATERIAL SAFETY DATA SHEET

TFMP, TC \*

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Substance key: 000000180962  
Version : 1 - 3 / USA

Revision Date: 10/21/2005  
Date of printing :03/30/2006

## Section 01 - Product Information

**Identification of the company:**

WeylChem US Inc.  
2114 Larry Jeffers Road  
Elgin, SC, 29045  
Telephone No.: +1 803-438-3471

**Information of the substance/preparation:**

WeylChem US Inc.  
Product Safety: 1-803-438-3471

**Emergency tel. number:** +1 800-424-9300 CHEMTREC

**Trade name:** TFMP, TC \*  
**Material number:** 181238  
**CAS number:** 349-76-8  
**Alpha Code:** TFMP  
**Synonyms:** 3-Acetylbenzotrifluoride; TFMP  
**Formula:** C<sub>9</sub>H<sub>7</sub>F<sub>3</sub>O  
**Primary product use:** Chemical Intermediate  
**Chemical family:** Aromatic Ketone

## Section 02 - Composition information on hazardous ingredients

**Hazardous ingredients:**

Component	CAS-no. (Trade secret no.)	Concentration
3'-(Trifluoromethyl)Acetophenone	349-76-8	> 93 %

## Section 03 - Hazards identification

**Emergency overview:** May be irritating and/or toxic.  
Clear, colorless liquid.  
OSHA combustible liquid.

**Expected Route of entry:**

**Inhalation:** yes  
**Skin contact:** yes  
**Eye contact:** yes  
**Ingestion:** yes  
**Skin absorption:** yes

**Health effects of exposure:**

3'-(Trifluoromethyl)acetophenone ( 349-76-8 )  
Moderately toxic by the inhalation route, low toxicity by the oral and dermal route. There is a possibility of skin absorption leading to toxicity.

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**Known effects on other illnesses:**

None known.

**Listed carcinogen:**

IARC: No  
NTP: No  
OSHA: No  
Other: No

**HMIS:**

Health: 2

Flammability: 2

Reactivity: 0

Personal protection: X

## Section 04 - First aid measures

**After inhalation:**

Remove from exposure to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**After contact with skin:**

Immediately remove contaminated clothing and wash affected area thoroughly with soap and water. Get medical attention.

**After contact with eyes:**

Immediately flush the eyes with large amounts of water, occasionally lifting the upper and lower eyelids, for at least 15 minutes. Seek medical attention immediately.

**After ingestion:**

Do not induce vomiting. Keep person warm, quiet, and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

**Advice to doctor / Treatment:**

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

## Section 05 - Fire fighting measures

**Flashpoint:** 181 °F

**Lower explosion limit:** not determined

**Upper explosion limit:** not determined

**Ignition temperature:** not determined

**Hazardous combustion products:**

Hydrogen fluoride, other fluorinated products, oxides of carbon and other irritating or toxic gases may be generated during a fire.

**Extinguishing media:**

carbon dioxide  
Water / Fog Spray  
Dry Chemical  
Alcohol resistant foam

**Special fire fighting procedure:**

Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

**Unusual fire and explosion hazards:**

Under fire conditions, product can form toxic Fluorine containing compounds..

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## Section 06 - Accidental release measures

### Steps to be taken in case of spill or leak:

Contain spill. Prevent sources of ignition. Wear appropriate respiratory protection and proper protective equipment. Ventilate if in enclosed area. Recover as liquid using hand or explosion proof pump or use suitable absorbant to collect. Clean up by flushing with water if appropriate or removal of contaminated soils.

## Section 07 - Handling and storage

### Advice on safe handling:

Keep away from heat and flame.  
Avoid breathing vapors and contact with skin, eyes, and clothing.  
Wash thoroughly after handling.  
Keep container closed.

### Further info on storage conditions:

Store in original container.

## Section 08 - Exposure controls / personal protection

<b>Respiratory protection:</b>	If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.
<b>Hand protection:</b>	Neoprene Or Nitrile.
<b>Eye protection:</b>	Chemical splash goggles.
<b>Other protective equipment:</b>	Clothing suitable to prevent skin contact.
<b>Advice on system design:</b>	Local ventilation recommended - mechanical ventilation may be used.

### IDLH:

None For This Product

## Section 09 - Physical and chemical properties

<b>Form:</b>	Liquid
<b>Color:</b>	colourless
<b>Odor:</b>	Mild odor.
<b>Solubility in water:</b>	0.62 g/l
<b>Density:</b>	1.2 - 1.3 g/cm3
<b>Freezing point :</b>	< 23 °F

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**Boiling point :** 388 - 392 °F

**Vapor pressure:** 0.265 Torr

## Section 10 - Stability and reactivity

**Chemical stability:** Stable.

**Hazardous Polymerization:** Will not occur.  
Conditions to avoid: None known.

**Conditions to avoid:** Avoid contact with reducing agents.  
Avoid contact with oxidizing agents.

## Section 11 - Toxicological information

### Product information:

**Acute oral toxicity:** LD50 > 2,000 mg/kg (rat)  
Method: OECD 401  
Information based on the main component.

**Acute inhalation toxicity:** LC50 > 6.913 mg/l (4 h, rat )  
Method: OECD 403  
Data relate to the main component

**Acute dermal toxicity:** LD50 > 2,000 mg/kg (rat)  
Method: OECD 402  
Data relate to main component.

### Other relevant toxicity information:

Toxicological data refers to the main component.

## Section 12 - Ecological information

### Product information:

**Biodegradation:** 18 % (28 d)  
not readily degradable  
Method: OECD 301 F

**Fish toxicity:** LC50 13.6 mg/l (96 h, rainbow trout)  
Method: OECD 203

**Daphnia toxicity:** EC50 22.7 mg/l (48 h, Daphnia pulex)  
Method: OECD 202

**Algae toxicity:** EC50 30.9 mg/l (72 h, Scenedesmus subspicatus)  
Method: OECD 201

**Bacteria toxicity:** EC50 > 1,000 mg/l (3 h)  
Method: OECD 209

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## Remarks:

Apart from the information given in this Safety Data Sheet on environmental effects, there are no additional data on mobility, persistence, degradability and bioaccumulation available.

Do not allow to enter soil, waterways or waste water

The ecological numerical data refers to the undiluted 100% substance

## Section 13 - Disposal considerations

### Waste disposal information:

Recommended disposal is by incineration in equipment specially designed for handling organic fluoride compounds (equipped with a caustic scrubber) or landfilling in approved systems.

### RCRA hazardous waste:

No -- Not as sold.

## Section 14 - Transport information

### DOT Regulation:

Proper shipping name:	Combustible liquid, n.o.s.
Hazard class:	C
Packing group:	III
UN/NA-number:	NA 1993
Technical Name:	3-Trifluoromethylacetophenone
Emergency Response	128
Guide:	

IATA not restricted

IMDG not restricted

### Further information:

Not regulated for surface transportation in non-bulk containers under 119 gallons.

## Section 15 - Regulatory information

### TSCA Status:

This product is listed on the TSCA Inventory.

### SARA (section 311/312):

Reactive hazard:	no
Pressure hazard:	no
Fire hazard:	yes
Immediate/acute:	yes
Delayed/chronic:	no

### SARA 313 information:

This product does not contain any toxic chemical listed under the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986. Note: Under normal usage conditions, the active components of this product may hydrolyze to release ethylene glycol.

### Clean Water Act:

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May contain priority pollutant toluene at concentrations greater than 0.1% and less than 1%.

**FDA:**

This product is not registered with the FDA.

## Section 16 - Other information

**Other precautions:**

None Known

**Label information:**

WARNING!

COMBUSTIBLE LIQUID CAUSES EYE, SKIN AND RESPIRATORY IRRITATION MAY CAUSE DIGESTIVE TRACT IRRITATION.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapor. Keep container closed. Use with adequate ventilation. Keep away from heat, sparks or flame. Keep Container closed, use with adequate ventilation. Do not taste or swallow. Do not take internally. Wash thoroughly after handling.

In case of contact, flush eyes with plenty of water for 15 minutes. Get medical attention. In case of SKIN CONTACT, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Get medical attention. Ingestion: do not induce vomiting. If patient is conscious, give two glasses of water. Never give anything by mouth an unconscious person. Seek medical attention immediately. If inhaled, remove individual to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call for immediate medical help.

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of Clariant AG, its business partners or suppliers.