



MATERIAL SAFETY DATA SHEET

IDENTITY: ISOPROPYL TRIFLUOROACETATE

SECTION I: MANUFACTURER

HALOCARBON PRODUCTS CORPORATION    Emergency Number:    (803) 278 3504  
P.O. Box 661    Customer Service & Sales: (201) 262 8899  
River Edge, N.J. 07661

Prepared by: MSDS Coordinator

SECTION II: CHEMICAL IDENTITY

Components	CAS No.	OSHA PEL	ACGIH TLV	Other Limits
Isopropyl trifluoroacetate	400-38-4	None	None	None

OSHA HAZARD RATING:

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372).

None

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point : 73 C    Vapor Pressure: 150mm @ 25 C  
Melting Point : Not determined    Vapor Density(Air=1): 5.4  
Specific Gravity(H2O=1): 1.108    Solubility in Water: Negligible  
hydrolyzes in water to acid and alcohol

Appearance and Odor: Colorless flammable liquid, sweet odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method: -8 C (closed cup)    Autoignition Temp: Not determine  
Flammability Limits in Air - LEL: N/A    UEL: N/A

Extinguishing Media: This is a flammable liquid. Use carbon dioxide, dry chemical or foam

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent skin and eye contact

Unusual Fire and Explosion Hazards: Vapor may travel to source of ignition and flash back. Emits toxic, corrosive fumes under fire conditions. These fumes may contain carbonyl halides and halogen acids.

SECTION V - REACTIVITY DATA

Unstable  Conditions to Avoid: N/A  
Stable

Incompatibility (Materials to Avoid): Strong bases and oxidizing agents.  
Reacts with water to form trifluoroacetic acid and ethanol.  
Hazardous Decomposition or By-products: N/A

Hazardous Polymerization  May Occur  Will Not Occur  
Conditions To Avoid: N/A

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## SECTION VI - HEALTH HAZARD DATA

No RTECS # available.

No known toxicity data is available. The hydrolytic half-life of Isopropanol trifluoroacetate is less than 1 minute. Isopropanol and trifluoroacetic acid result from the reaction with water in the mucous membranes, upper respiratory tract, eyes and skin. While the toxicity of trifluoroacetic acid is low, contact with the skin causes immediate burns. The acid diffuses into the affected tissue and destroys as it penetrates. Fumes may also be irritating. Wash any affected area for at least 15 minutes and treat as third degree burn even though appearance may not indicate severity of skin damage. Subcutaneous injections of calcium gluconate are not indicated. Unlike the monofluoroacetate ion, the trifluoroacetate ion is not toxic.

Toxicity data for trifluoroacetic acid, RTECS # AJ625000:

Animal	Route	Dose
Rat	Oral	LD(lo) 500 mg/kg
Rat	Inhalation	LC(50) 10 mg/L (10 g/m3)
Mouse	Inhalation	LC(50) 13.5mg/L (13.5g/m3)
Mouse	Intraperitoneal	LD(lo) 150 mg/kg
Mouse	Intravenous	LD(50) 1.2 g/kg

In a one hour acute inhalation study for TFA in rats, all animals exposed to 6.57 mg/L (1440 ppm) survived with no gross pathological findings.

Primary routes of entry:  Inhalation  Skin  Eyes  Oral

Acute Effects of Overexposure: May include burning sensation, shortness of breath, headache, nausea and vomiting.

Chronic Effects of overexposure: None known

Carcinogenicity listing:  [ No] NTP  [ No] IARC  [ No] OSHA  
 [ No] Other:

#### First Aid

Inhalation: Remove to fresh air. Give oxygen if necessary  
Skin: Wash immediately with copious amounts of water  
Eye: Flush eyes with water for at least 15 minutes. Consult physician.  
Oral: Induce vomiting. Consult physician immediately.

Medical Conditions Generally Aggravated by Exposure: None known

Other Health Hazards: None known

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## SECTION VII - PROTECTION INFORMATION

Respiratory: Self-contained breathing apparatus for emergency use

Ventilation: Good local explosion proof ventilation

Eye and Face: Safety glasses, goggles or face shield

Gloves: Impervious gloves

Other equipment: Provide safety shower and eye wash.

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## SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

Spill, Leak, or Release: Evacuate area and remove ignition sources.

Absorb spill in absorbent and pick-up with non-sparking tools

Waste Disposal: May be incinerated. Follow all applicable regulations.

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## SECTION IX - OTHER INFORMATION

### 1. Hazardous Materials/Dangerous Goods Shipping Regulations

U.S. (49 CFR): Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S.  
(Isopropyl Trifluoroacetate)  
Hazard Class: 3; ID No.: UN 2924; Packaging Group: I  
Sub Risk: 8

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Sub Risk: 8

IMDG: Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S.  
(Isopropyl Trifluoroacetate)  
Hazard Class: 3; ID No.: UN 2924; Packaging Group: I  
Sub Risk: 8

### 2. Other Information: HMIS Labeling: H 3; F 3; R 1; P D

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REVISED: MAY 1, 2007