



MATERIAL SAFETY DATA SHEET

IDENTITY: ETHYL DIFLUOROACETATE

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: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

	CAS	OSHA	ACGIH	Other	
Hazardous Components	No.	PEL	TLV	Limits	
Ethyl difluoroacetate	454-31-9	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 : 99-100C Vapor Pressure: Not available
Melting Point : Not available Vapor Density(Air=1): >1
Specific Gravity(H₂O=1): 1.18 g/cm³ Solubility in Water : Partially miscible
Appearance and Odor: Clear, colorless to pale yellow liquid with sweet odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method: 24 C/Closed cup Autoignition Temp: Not determined
Flammability Limits in Air - LEL: NA UEL: NA

Extinguishing Media: Material is flammable. For small fires, use carbon dioxide or regular dry chemical. Fight larger fires with water spray or alcohol resistant foam. Use very large quantities of water applied as mist or spray, solid streams of water may be ineffective. Use methods appropriate for surroundings.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes. Ethyl difluoroacetate is a flammable liquid and vapors may travel to source of ignition and flash back. Container explosion may occur under fire conditions.

Unusual Fire and Explosion Hazards: Thermal decomposition products will be corrosive and toxic.

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SECTION V - REACTIVITY DATA

Unstable Conditions to Avoid: Keep away from ignition sources,
Stable protect against electrostatic charge. Material can
combine with air to form an explosive mixture.

Incompatibility (Materials to Avoid): Strong acids, strong bases, oxidizing
agents, reducing agents.

Hazardous Combustion or Decomposition Products: Includes toxic fumes of
carbon dioxide, carbon monoxide, hydrogen fluoride.

Hazardous Polymerization May Occur Will Not Occur

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SECTION VI - HEALTH HAZARD DATA

To the best of our knowledge, physical properties, health hazards and
toxicological properties of this product have not been thoroughly in-
vestigated. This material is flammable and corrosive. Material may be
destructive to tissue of the mucous membrane and upper respiratory tract.
Acute exposure may cause nose, throat and lung irritation. Material may
hydrolyze partially in contact with moisture to form difluoroacetic acid
which is corrosive. Skin and eye contact may cause burns. Symptoms of
exposure include burning sensation, coughing, headache, shortness of
breath, nausea and vomiting. Inhalation may result in spasm, inflammation
and edema of the larynx and bronchi, chemical pneumonitis and pulmonary
edema.

Primary routes of entry: Inhalation Skin Eyes Oral

Carcinogenicity listing: NTP IARC OSHA
 Other:

First Aid

Inhalation: Remove to fresh air and give artificial respiration if
necessary. Seek immediate medical attention.

Skin: Wash affected area immediately for at least 15 minutes. Remove
contaminated clothing and shoes. Seek medical help if needed.

Eye: Flush eyes with plenty of water for at least 15 minutes. Get
immediate medical help.

Oral: Wash out mouth with water if person is conscious. Get immediate
medical attention.

Medical Conditions Generally Aggravated by Exposure: No information avail-
able.

Other Health Hazards: No information available.

SECTION VII - PROTECTION INFORMATION

Respiratory: Under conditions of frequent use or heavy exposure, respiratory protection should be used. Self-contained breathing apparatus for emergency use.

Ventilation: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Eye protection: Safety glasses or goggles and a face shield.

Gloves: Wear appropriate chemical resistant gloves.

Other equipment: Safety shower and eye bath. Use non-sparking tools only. Mechanical exhaust required.

SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

Spill, Leak, or Release: Wear self-contained breathing apparatus with appropriate shoes and gloves. If spilled, evacuate area; ensure adequate ventilation. Keep away from ignition sources. Absorb on dry lime or sand, pick up and place in appropriate container using non-sparking tools. Hold for disposal. Wash spill site after material pick up is complete.

Waste Disposal: Contact licensed professional to dispose of this chemical. Burn in a chemical incinerator equipped with after burner and scrubber. Observe all federal, state and local regulations.

SECTION IX - OTHER INFORMATION

U.S. (49 CFR) - Proper Shipping Name: Flammable liquid, corrosive, N.O.S.
(Ethyl difluoroacetate)
Hazard Class: 3 ID No.: UN2924 Packing Group III
Sub Risk: 8

IATA - Proper Shipping Name: Flammable liquid, corrosive, N.O.S.
(Ethyl difluoroacetate)
Hazard Class: 3 ID No.: UN2924 Packing Group III
Sub Risk: 8

IMDG - Proper Shipping Name: Flammable liquid, corrosive, N.O.S.
(Ethyl difluoroacetate)
Hazard Class: 3 ID No.: UN2924 Packing Group III
Sub Risk: 8

HMIS Information: H3; F3; R0; P=C

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