



杭州大阳化工有限公司
Hangzhou Dayangchem Co., Ltd.

Safety Data Sheet

No :M-4306

Section 1 - Product and Company Identification

MSDS Name: Ethyl difluoroacetate

Synonyms: /

Company Identification: Hangzhou Dayangchem Co., Ltd.

For information, call: 86-571-88938639

For information,E-mail: infores@chinadayangchem.com

Emergency Number: 86-571-88938639

For CHEMTREC assistance, call: 86-571-88938639; FAX:86-571-88938652

Section 2 – Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Skin corrosion (Category 1B), H314

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

C Corrosive R10, R34

For the full text of the R-phrases mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram

Signal word Danger

Hazard statement(s)

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Other hazards-none

Section 3 – Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#	Classification
454-31-9	Ethyl difluoroacetate	99.5+	207-223-4	Flam. Liq. 3; Skin Corr. 1B; H226, H314; C, R10 - R34

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

Section 4 - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. 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 and 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.

Section 5 - Fire Fighting Measures

Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Further information: Use water spray to cool unopened containers.

Extinguishing Media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Spills/Leaks: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

Section 7 - Handling and Storage

Handling: Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage: Store in cool place. 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.

Section 8 - Exposure Controls, Personal Protection

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Eyes: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin: 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Clothing: Complete suit protecting against chemicals, 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.

Respirators: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (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.

Section 9 - Physical and Chemical Properties

Physical State: colourless liquid.

Color: colourless.

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 99.2 °C - lit.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: 23.9 °C - closed cup.

Explosion Limits:Lower: Not available.

Explosion Limits Upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Not available.

Specific Gravity/Density: 1.18 g/cm³ at 25 °C

Molecular Formula: C₄H₆F₂O₂

Molecular Weight: 124.09

Section 10 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat, flames and sparks.

Incompatibilities with Other Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides, Hydrogen fluoride.

Section 11 - Toxicological Information

RTECS#: CAS# 454-31-9: None listed

LD50/LC50: RTECS: Not available.

Carcinogenicity: Ethyl difluoroacetate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Potential health effects

Inhalation Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion Toxic if swallowed. Causes burns.

Skin May be harmful if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Section 12 - Ecological Information

Not available.

Section 13 - Disposal Considerations

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

	IMO	RID/ADR	IATA
Shipping Name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethyl difluoroacetate)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethyl difluoroacetate)	Flammable liquid, corrosive, n.o.s. (Ethyl difluoroacetate)
Hazard Class:	3 (8)	3 (8)	3 (8)
UN Number:	2924	2924	2924
Packing Group:	III	III	III
marine pollutant: Not available.			

other applicable information: Not available.

Section 15 - Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

Section 16 - Other Information

Text of H-code(s) and R-phrase(s) mentioned in Section 2 and 3.

Flam. Liq. Flammable liquids

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Skin Corr. Skin corrosion

C Corrosive

R10 Flammable.

R34 Causes burns.

MSDS Creation Date: 23/01/2014

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