# Material Safety Data Sheet 4-Fluoro-1,3-dioxolan-2-one

# Section 1 -chemical product and company Identification

MSDS Name:	4-Fluoro-1,3-dioxolan-2-one
Catalog Numbers:	10165
Synonyms:	Fluoroethylene carbonate
Company Identification:	China Langchem Inc.
For information in China:	Tel:+86-021-58956006
	Fax : +86-021-58956100
	E-mail address : Sales@langchem.com
	Web: http://www.langchem.com

## Section 2 -Composition, information on ingredients

CAS#	Chemical Name:	Purity	MDL#
114435-02-8	4-Fluoro-1,3-dioxolan-2-one	99%	Not available

Hazard Symbols:	Not available	

Risk Phrases: Not available

# Section 3 - Hazards Identification

Eye:	Causes eye irritation.
Skin:	Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

# **Section 4- First Aid Measures**

Eyes:	Flush eyes with plenty of water for at least 15 minutes,		
	occasionally lifting the upper and lower eyelids. Get medical aid.		

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

Ingestion: Get medical aid. Wash mouth out with water.

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

Notes to Treat symptomatically and supportively.

Physician:

## Section 5- Fire Fighting Measures

GeneralAs in any fire, wear a self-contained breathing apparatus inInformation:pressure-demand, MSHA/NIOSH (approved or equivalent), and<br/>full protective gear.

**Extinguishing** Use water spray, dry chemical, carbon dioxide, or chemical foam. **Media:** 

## Section 6- Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container.

### Section 7- Handing and storage

- Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
- Storage:Store in a cool, dry place and nitrogen protection. Do not store<br/>in direct sunlight. Store in a tightly closed container.

### Section 8- Exposure contorls, personal portection

#### **Engineering Controls**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### **Personal Protective Equipment**

- **Eyes:** Wear chemical splash goggles.
- Skin: Wear appropriate protective gloves to prevent skin exposure.
- **Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- **Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9-Physical and chemical properties

Liquid
Colorless,clear
Not available
200 °C
19~20°C
Not available
1.454g/cm <sup>3</sup>
Not available
C3H3FO3
106.05

### Section 10-Stability and Reactivity

Chemical Stability:	Not available.
Conditions to Avoid:	Incompatible materials.
Incompatibilities with Other Materials:	Strong oxidizing agents,moisture.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, hydrogen fluoride.
Hazardous Polymerization:	Has not been reported.

### Section 11-Toxicological information

RTECS#:	CAS# 114435-02-8: None listed
LD50/LC50:	RTECS: Not available.

Carcinogenicity:	4-Fluoro-1,3-dioxolan-2-one- Not listed as a carcinogen by	
	ACGIH, IARC, NTP, or CA Prop 65.	
Other:	The toxicological properties have not been fully investigated.	

## Section 12-Ecological information

Not available

## Section 13-Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14-Transport information

ADR/RID	IMDG	ΙΑΤΑ
Not regulated.	Not regulated.	Not regulated.

# Section 15-Regulatory information

#### **European/International Regulations**

#### European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

**Risk Phrases:** 

Not available.

#### Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36 Wear suitable protective clothing.

#### WGK (Water Danger/Protection)

CAS# 114435-02-8: Not available

Canada

CAS# 114435-02-8: Not available

#### US Federal

TSCA

CAS#114435-02-8 is not listed on the TSCA Inventory. It is for research

and development use only.

# Section 16- Other information

MSDS Creation Date:

2009-12-28

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.