

# Safety data sheet

## Myristyl chloroformate

Revision date : 2006/05/16  
Version: 1.0

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(30037054/MDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

Company  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

Molecular formula:	C18 H35 Cl O
Chemical family:	chloroformates
Synonyms:	Tetradecyl Chloroformate

### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
56677-60-2	>= 98.0 - <= 100.0 %	tetradecyl chloroformate

### 3. Hazard identification

#### Emergency overview

WARNING: REACTS VIOLENTLY WITH WATER. CAUSES SKIN IRRITATION.  
MAY CAUSE EYE IRRITATION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.  
Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of mists/vapours.  
Use with local exhaust ventilation.  
Wear appropriate respiratory protection.  
Wear NIOSH-certified chemical goggles.  
Wear chemical resistant protective gloves.  
Wear protective clothing.  
Eye wash fountains and safety showers must be easily accessible.

#### Potential health effects

##### **Primary routes of exposure**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

Ingestion may cause gastrointestinal disturbances.

##### **Irritation:**

Irritating to eyes and skin. Irritating to respiratory system.

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**Repeated dose toxicity:**

No known chronic effects.

**Medical conditions aggravated by overexposure:**

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

See MSDS section 11 - Toxicological information.

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## 4. First-aid measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**If on skin:**

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

**If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

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## 5. Fire-fighting measures

Flash point:

dropped

Autoignition:

225 °C

(DIN 51794)

**Suitable extinguishing media:**

foam, carbon dioxide, dry extinguishing media

**Hazards during fire-fighting:**

hydrogen chloride (HCl)

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Wear totally enclosed protective clothing.

**Further information:**

If exposed to fire, keep containers cool by spraying with water.

**NFPA Hazard codes:**

Health : 2

Fire: 1

Reactivity: 2

Special:

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## 6. Accidental release measures

**Personal precautions:**

Avoid inhalation. Handle in accordance with good industrial hygiene and safety practice.

**Environmental precautions:**

Substance/product is RCRA hazardous due to its properties.

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### **Cleanup:**

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## 7. Handling and storage

### **Handling**

#### **General advice:**

Ensure thorough ventilation of stores and work areas. Protect against moisture. Protect against heat.

#### **Protection against fire and explosion:**

See MSDS section 5 - Fire fighting measures.

### **Storage**

#### **General advice:**

Containers should be stored tightly sealed in a dry place.

Keep container tightly closed and dry; store in a cool place. Avoid extreme heat. Keep away from sources of ignition - No smoking.

#### **Storage stability:**

Protect against moisture.

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## 8. Exposure controls and personal protection

### **Advice on system design:**

Provide local exhaust ventilation to control vapours/mists.

### **Personal protective equipment**

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

#### **General safety and hygiene measures:**

No special measures necessary if stored and handled correctly. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Wash soiled clothing immediately.

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## 9. Physical and chemical properties

Form:	liquid
Odour:	pungent odour
Colour:	colourless to yellow
pH value:	6
Melting point:	4 °C

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Vapour pressure:	0.1 mbar	( 20 °C)
Density:	0.94 g/cm3	( 20 °C)
Solubility in water:		sparingly soluble

## 10. Stability and reactivity

### Substances to avoid:

peroxides

### Hazardous reactions:

Addition of water leads to increase in temperature.  
The product is chemically stable.

### Decomposition products:

Hazardous decomposition products: Hydrogen chloride  
Hydrogen chloride

### Thermal decomposition:

Decomposes on heating.

### Corrosion to metals:

No corrosive effect on metal.

## 11. Toxicological information

### Acute toxicity

#### Oral:

LD50/rat: > 5,000 mg/kg

#### Skin irritation:

rabbit: Irritant. (OECD Guideline 404)

#### Eye irritation :

rabbit: non-irritant (OECD Guideline 405)

### Chronic toxicity

#### Other information:

No experimental evidence available for genotoxicity in vitro (Ames test negative).

## 12. Ecological information

### Environmental fate and transport

#### Biodegradation:

Test method:	OECD 302B; ISO 9888; 88/302/EEC,part C
Method of analysis:	DOC reduction
Degree of elimination:	> 70 %
Evaluation:	Easily eliminated from water. The product is unstable in water. The elimination data also refer to products of hydrolysis. The product is biodegradable.

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### Environmental toxicity

#### **Acute and prolonged toxicity to fish:**

zebra fish/LC50 (96 h): > 1,000 - < 2,150 mg/l

#### **Other ecotoxicological advice:**

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Do not discharge product into the environment without control.

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## 13. Disposal considerations

#### **Waste disposal of substance:**

Dispose of in a RCRA-licensed facility.  
Do not discharge into waterways or sewer systems without proper authorization.  
Dispose of in accordance with national, state and local regulations.

#### **Container disposal:**

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. If containers are not empty, they must be disposed of in a RCRA-licensed facility.

**RCRA:** D003

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## 14. Transport information

#### **Land transport**

*USDOT*

Not classified as a dangerous good under transport regulations

#### **Sea transport**

*IMDG*

Not classified as a dangerous good under transport regulations

#### **Air transport**

*IATA/ICAO*

Not classified as a dangerous good under transport regulations

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## 15. Regulatory information

### Federal Regulations

#### **Registration status:**

TSCA, US blocked / not listed

#### **OSHA hazard category:**

Skin and/or eye irritant, Water Reactive

#### CERCLA RQ

5,000 LBS  
10 LBS

#### CAS Number

7647-01-0  
75-44-5

#### Chemical name

Hydrogen chloride  
carbonyl chloride

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**SARA hazard categories (EPCRA 311/312):** Acute

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## 16. Other information

### HMIS III rating

Health: 2

Flammability: 1

Physical hazard: 2

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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### Local contact information

prod\_reg@basf.com

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