

Safety data sheet

Octanoyl chloride

Revision date : 2007/07/18
Version: 1.1

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(30042184/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

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

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
111-64-8		octanoyl chloride

3. Hazard identification

Emergency overview

DANGER: EXTREMELY TOXIC BY INHALATION. RISK OF SERIOUS DAMAGE TO EYES. SEVERELY IRRITATING TO EYES, SKIN, RESPIRATORY TRACT.
Ensure adequate ventilation.
Wear full face shield if splashing hazard exists.
Wear chemical resistant protective gloves.
Wear a NIOSH-certified vapor respirator.
Wear protective clothing.

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:

Virtually nontoxic after a single ingestion. Very toxic by inhalation.

Irritation:

Irritating to skin. Risk of serious damage to eyes.

4. First-aid measures

General advice:

Immediately remove contaminated clothing.

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If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

5. Fire-fighting measures

Flash point:	85 °C	(DIN EN 22719; ISO 2719)
Autoignition:	230 °C	(DIN 51794)
Lower explosion limit:	1.2 %(V)	
Upper explosion limit:	5.9 %(V)	

Suitable extinguishing media:

dry extinguishing media, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water

Hazards during fire-fighting:

Hydrogen chloride,

The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Breathing protection required. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

Do not empty into drains.

Cleanup:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Handling

General advice:

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

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Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

General advice:

Keep container tightly closed in a cool, well-ventilated place.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Self-contained breathing apparatus.

Hand protection:

Chemical resistant protective gloves, nitrile rubber (Buna N), fluoroelastomer (Viton), Consult with glove manufacturer for testing data.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

9. Physical and chemical properties

Form:	liquid	
Odour:	pungent	
Colour:	colourless to yellowish	
pH value:	< 7	
Melting point:	-63 °C	
Boiling point:	196 °C	
Vapour pressure:	0.8 mbar	(20 °C)
	4.5 mbar	(50 °C)
Density:	0.949 g/cm ³	(20 °C)
Solubility in water:		(20 °C) spontaneous decomposition

10. Stability and reactivity

Substances to avoid:

water, bases, amines, amine compounds

Hazardous reactions:

Exothermic reaction.

Decomposition products:

Hazardous decomposition products: Hydrogen chloride

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11. Toxicological information

Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg (Guideline 92/69/EEC, B.1)

Inhalation:

The statement for acute inhalative toxicity was derived from products of similar composition.

Information on: isononanoic acids

LC50/rat: 0.06 - 0.1 mg/l / 4 h

rat: / 3 min(IRT)

No Mortality within the stated exposition time as shown in animal studies, however, deaths occurred after longer exposure.

Skin irritation:

rabbit: Irritant. (OECD Guideline 404)

Eye irritation :

Risk of serious damage to eyes.

The product has not been tested. The statement has been derived from products of a similar structure and composition.

Chronic toxicity

Genetic toxicity:

The substance was not mutagenic in bacteria.

12. Ecological information

Environmental fate and transport

Biodegradation:

Evaluation: The product is unstable in water. The elimination data also refer to products of hydrolysis.

Information on: octanoic acid

Environmental toxicity

Acute and prolonged toxicity to fish:

zebra fish/LC50 (96 h): > 100 - < 215 mg/l

Other ecotoxicological advice:

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

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Container disposal:

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility.

14. Transport information

Land transport

USDOT

Hazard class: 6.1
Packing group: II
ID number: UN 2810
Hazard label: 6.1
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (contains OCTANOYLCHLORIDE)

Sea transport

IMDG

Hazard class: 6.1
Packing group: II
ID number: UN 2810
Hazard label: 6.1
Marine pollutant: NO
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. contains (OCTANOYLCHLORIDE)

Air transport

IATA/ICAO

Hazard class: 6.1
Packing group: II
ID number: UN 2810
Hazard label: 6.1
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. contains (OCTANOYLCHLORIDE)

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US released / listed

OSHA hazard category:

Chronic target organ effects reported, Combustible Liquid

CERCLA RQ

5000 LBS

10 LBS

CAS Number

7647-01-0

75-44-5

Chemical name

Hydrogen chloride

carbonyl chloride

SARA hazard categories (EPCRA 311/312): Chronic, Fire

State regulations

State RTK

CAS Number

111-64-8

Chemical name

octanoyl chloride

State RTK

MA, PA

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16. Other information

Recommended use: for industrial use only

HMIS III rating

Health: 3 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.

Local contact information

PROD_STEW_CA_CP_CZ@BASF.COM

N-CZ

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