

Safety Data Sheet

Release 1.0
Revision 12/05/2020
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page 1 of 6

1 Identification of the substance

Identification of the substance

Identification of the substance Ethyl 4-chloro-4-oxobutyrate

Additional identification Ethyl succinyl chloride

Biosynth catalog no. FE34608

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

Use of the substance/preparation

Identified uses other biochemicals

Restriction on use not for food or drug use, for laboratory use only

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Emergency Number

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2 Hazards identification

Health Hazards

Skin corrosion/irritation (Category 1B)

Serious eye damage/eye irritation (Category 1)

acute toxicity (Category 4)

Environmental Hazards

not classified

Physical Hazards

not classified

Possible Hazards (Summary)

GHS Labeling

Regulatory List
EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol
GHS05 corrosion

Pictogram



GHS07 exclamation mark

Pictogram*Signal Word*

Danger Danger

Hazard Statement

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary Statement

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

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove casualty to fresh air and keep at rest in a position comfortable for breathing.

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

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

Additional Information

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

3 Composition/information on ingredients

Substance related information

Substance name Ethyl 4-chloro-4-oxobutyrates

Synonymes Ethyl succinyl chloride

Cas No. [14794-31-1]

Formula $C_6H_9ClO_3$

4 First aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures**Extinguishing Media****Suitable**

foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

Hazards During Fire-Fighting

toxic fumes

Protective Equipment for Fire-Fighting

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

Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures**Personal Precautions**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

Methods for Cleaning or Taking Up

not available

Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage**Handling****Handling advice**

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage**Storage temperature**

store at 2°C - 8°C

Storage condition

close container well

Storage Requirements

Keep away from incompatible substances. Keep container tightly closed when not in use.

8 Exposure controls/personal protection**Exposure controls****Industrial Hygiene**

Mechanical exhaust required. Safety shower and eye shower.

Personal Protective Equipment**Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties**Color**

colorless

Form

clear liquid

Phase Transition Liquid/Gas

89 °C

Molar Mass

164.59 g/mol

Density

1.158 g/cm³

Flash Point

84 °C

10 Stability and reactivity**Conditions to Avoid**

incompatible materials

Substances to Avoid

strong oxidizers

Decomposition Products

carbon dioxide (CO₂), hydrogen chloride (HCl), carbon monoxide

11 Toxicological information**Other Relevant Toxicity Information**

We are not aware of any toxicology data.

12 Ecological Information**Biodegradation**

no data available

Bioaccumulation

no data available

Distribution in Environment

no data available

13 Disposal considerations

Advice on Disposal and Packaging

Advice on Disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging

not available

14 Transport information

Road Transport (ADR/GGVS)

UN No. 3265

Class(es) 8

Packaging group II

Proper Shipping Name Corrosive liquid, acidic, organic, n.o.s.(Ethyl 4-chloro-4-oxobutyrat

Air Transport (IATA)

UN No. 3265

Class(es) 8

Packaging group II

Proper Shipping Name Corrosive liquid, acidic, organic, n.o.s.(Ethyl 4-chloro-4-oxobutyrat

15 Other regulations

Other Regulations

Regulatory List

EINECS, TCSI, TSCA, NZIOC

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ethyl 4-chloro-4-oxobutyrat	-----	-----	-----

16 Additional information

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