

**Material Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006**

**HEPTYL CHLOROFORMATE**

Revision date 26.05.2025  
Version 1  
Replaces version from -

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**1. Identification of the substance/Mixture and of the company/undertaking**

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**1.1 Product identifier**

Product name Heptyl chloroformate  
CAS-No. 33758-34-8

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Laboratory chemicals, Manufacture of substances.

**1.3 Details of the supplier of the safety data sheet**

Name Valsynthese SA  
Factory address Valsynthese SA  
Fabrikstrasse 48  
PO Box 636  
3900 Brig / Switzerland  
Office address Valsynthese SA  
Societe Suisse des Explosifs Group  
PO Box 636  
3900 Brig / Switzerland

Information Departement This number is available only during office hours.  
Phone +41 27 922 71 11  
E-Mail (Responsible person):  
msds@sse-group.com

**1.4 Emergency Phone Number** +41 27 922 71 11 (only during office hours) or  
Toxicological Information Centre in Switzerland: Tel. 145  
or +41 (0) 44 251 51 51

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## 2. Hazards Identification

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### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids,(Category 3), H226

Corrosive to Metals,(Category 1), H290

Skin corrosion/irritation,(Category 1A), H314

Acute toxicity, oral; acute toxicity, dermal; acute toxicity, inhalation,(Category 1, 2),  
H300+H310+H330

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

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

H227

Flammable liquid and vapour.

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H300+H310+H330

Fatal if swallowed, in contact with skin or if inhaled.

Precautionary statement(s)

P233

Keep container tightly closed.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

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

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated  
clothing. Rinse skin with water.

P304+P340+P310

IF INHALED: Remove person to fresh air and keep comfortable  
for breathing. Immediately call a POISON CENTER/ doctor.

P305+P351+P338

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

Supplemental Hazard  
Statements

none

### 2.3 Other hazards

No data available

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### 3. Composition / Information on ingredients

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#### 3.1 Substance

Product name	Heptyl chloroformate
Molecular formula	C <sub>8</sub> H <sub>15</sub> ClO <sub>2</sub>
Molecular weight	178.6565 g/mol
CAS-No.	33758-34-8

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
<b>Heptyl chloroformate</b>		
CAS-No. 33758-34-8	Flam. Liq. 3, Met. Corr. 1, Skin. Corr. 1A, Acute Tox. 1, Acute Tox. 2, H226, H290, H314, H300, H310, H330	<=100%

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

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### 4. First-aid measures

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#### 4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	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.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2 or section 11).

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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### 5. Fire fighting measures

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#### 5.1 Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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## **5.2 Special hazards arising from the substance or mixture**

Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen bromide gas

## **5.3 Advice for fire fighters**

In the event of fire, wear self-contained breathing apparatus.

## **5.4 Additional information**

No data available

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# **6. Accidental release measures**

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## **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

## **6.2 Environmental precautions**

Do not let product enter drains.

## **6.3 Methods and material for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

## **6.4 Reference to other sections**

For further and detailed information see section 8 and 13.

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# **7. Handling and storage**

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## **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.

## **7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.  
Room Temperature.

## **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1, no other specific uses are stipulated.



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## 8. Exposure controls / Personal protection

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### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	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.
Body Protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Environmental exposure controls	Do not let product enter drains.

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## 9. Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

Physical state	clear, liquid
Color	colorless
Odor	No data available
pH value	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	71 °C / 7mmHg
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available



Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Relative density	1.00
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	No data available

## 9.2 Other information

No data available

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# 10. Stability and reactivity

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## 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under proper conditions.

## 10.3 Possibility of hazardous reactions

Decomposes in contact with water and liberates toxic gases.

## 10.4 Conditions to avoid

Open flame, Moisture.

## 10.5 Incompatible materials

Oxidizing agents.

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

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# 11. Toxicological information

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## 11.1 Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	No data available



Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

### 11.2 Additional information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. Ecological information

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### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulation potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available

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## 13. Disposal considerations

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### 13.1 Waste treatment methods

#### Product

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.

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**14. Transport information**

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**14.1 UN Number**

ADR/RID: 3277

IMDG: 3277

IATA: 3277

**14.2 UN proper shipping name**

ADR/RID:

CHLOROFORMATES, TOXIC,  
CORROSIVE, N.O.S.

IMDG:

CHLOROFORMATES, TOXIC,  
CORROSIVE, N.O.S.

IATA:

Chloroformates, toxic,  
corrosive, n.o.s.

**14.3 Transport hazard class(es)**

ADR/RID: 6.1 (8)

IMDG: 6.1 (8)

IATA: 6.1 (8)

**14.4 Packing group**

ADR/RID: II

IMDG: II

IATA: II

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

No data available

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**15. Regulatory information**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

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**16. Other information**

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**16.1 Information regarding the revision of the safety data sheet**

Version 1 based on the classification according to Regulations (EC) No 1272/2008, (EU) 878/2020 and (EU) 707/2023.

**16.2 Full text of H-Statements referred to under sections 2 and 3**

H226

Flammable liquid and vapour.

H290

May be corrosive to metals.

H300

Fatal if swallowed.





H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled

### 16.3 Additional information

The information contained herein is in conformity with EU Directive EC 1907/2006 and EC 1272/2008, and is believed to be accurate and represents the best information currently available to us on the date of publication. However, we make no warranty of merchantability 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 Valsynthese SA 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 Valsynthese SA has been advised of the possibility of such damages.

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