

# **Material Safety Data Sheet**

according to Regulation (EC) No. 1907/2006

## **ISOPENTYL CHLOROFORMATE**

Revision date 23.05.2025

Version 1
Replaces version from -

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

1.1 Product identifier

Product name Isopentyl chloroformate

CAS-No. 628-50-2

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

Fabrikstrasse 4 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

+41 27 922 71 11 (only during office hours) or

Number

Toxicological Information Centre in Switzerland: Tel. 145

or +41 (0) 44 251 51 51



## 2. Hazards Identification

## 2.1 Classification of the substance or mixture

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

Acute toxicity, oral (Category 4), H302

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3),

H335

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 Warning

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/

face protection.

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

# 3. Composition / Information on ingredients

# 3.1 Substance

Product name Isopentyl chloroformate

Molecular formula  $C_6H_{11}CIO_2$  Molecular weight 150.60 g/mol CAS-No. 628-50-2



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

Component		Classification	Concentration	
Isopentyl chloroformate				
CAS-No.	628-50-2	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, H302, H315, H319, H335	<=100%	

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

### 4. First-aid measures

## 4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the

doctor in attendance. Move out of dangerous area.

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

## 5. Fire fighting measures

## 5.1 Extinguishing media

Suitable extinguishing Use wa media carbon

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx) Hydrogen bromide gas

## 5.3 Advice for fire fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Additional information

No data available



## 6. Accidental release measures

## 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.

# 7. Handling and storage

### 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 Storage conditions

Keep in dry area.  $-10 \, ^{\circ}\text{C}$ .

#### 7.3 Specific end use(s)

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

## 8. Exposure controls / Personal protection

## 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 required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387

and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out

according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure

controls

Do not let product enter drains.

# 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical state liquid

Color No data available
Odor No data available
pH value No data available
Melting point/freezing point No data available

Initial boiling point and

boiling range

207.14°C (rough estimate)

Flash point No data available
Evaporation rate No data available
Flammability (solid, gas) No data available
Upper/lower flammability No data available

or explosive limits

Vapour pressure No data available
Density No data available
Relative density No data available
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, kinematic: No data available

Viscosity, dynamic: No data available

Particle No data available

characteristics

Explosive properties No data available Oxidizing properties No data available

#### 9.2 Other information

No data available

# 10. Stability and reactivity

## 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

No data available

## 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

# 11. Toxicological information

## 11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye

No data available

irritation

Eye damage/irritation No data available Respiratory or skin No data available

sensitisation



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.

# 12. Ecological information

## 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

 ${\tt PBT/vPvB} \ assessment \ not \ available \ as \ chemical \ safety \ assessment \ not \ required/not \ Conducted.$ 

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

No data available

# 13. Disposal considerations

#### 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.



# 14. Transport information

14.1 UN Number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous IMDG: Not dangerous goods IATA: Not dangerous goods

goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packing group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: - IMDG Marine pollutant: - IATA: -

14.6 Special precautions for user

No data available

**Further information** 

Not classified as dangerous in the meaning of transport regulations.

# 15. Regulatory information

# 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.

## 16. Other information

#### 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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation



#### 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.

