

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

HEXYL NITRITE

Revision date25.02.2025Version1Replaces version from-

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

1.1 Product identifier		
Product name	Hexyl Nitrite	
CAS-No.	638-51-7	
1.2 Relevant identified u	ses of the substance or mixture and uses advised	
against		
Identified uses	For research use only. Not intended for diagnostic or therapeutic use.	
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	



Société Suisse des Explosifs Group

2. Hazards Identification

2.1 Classification of the substance or mixture

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

Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 4), H312 Acute toxicity, Inhalation (Category 4), H332

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)



Danger
Highly flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled
Do not handle until all safety precautions have been read an understood.
Keep away from heat/sparks/open flames/hot surfaces No smoking.
Keep container tightly closed.
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell
IF exposed or concerned: Get medical advice/ attention.

none



3. Composition / Information on ingredients

3.1 Substance

Product name	Hexyl Nitrite
Molecular formula	$C_6H_{13}NO_2$
Molecular weight	131.18 g/mol
CAS-No.	638-51-7

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

Component	mponent Classification C		Concentration
Hexyl Nitrite			
CAS-No.	638-51-7	Flam. Liq. 2; Acute Tox. 4; Acute Tox. 4; Acute Tox. 4; H225; H302; H312; H332	<=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.	
If swallowed	Never give anything by mouth to an unconscious person. Clean mouth with. Consult a physician.	
If inhaled	Remove to fresh air. If breathing is difficult, give oxygen. 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

No data available

4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically



5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishingUse extinguishing measures that are appropriate to local
circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

flammable Carbon oxides. Nitrogen oxides (NOx)

5.3 Advice for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Additional information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Use personal protective.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do. Soak up with inert absorbent material.

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

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

7.3 Specific end use(s)

The information required is contained in this Material Safety Data Sheet.



8. Exposure controls / Personal protection

8.1 Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Exposure controls

Appropriate engineering controls

Showers Eyewash stations Ventilation systems

Personal protective equipment

Eye/face protection	Safety glasses with side-shields conforming to EN166 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	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Environmental exposure controls	No information available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	liquid
Odour	No data available
Odour threshold	No data available
pH value	No data available
Melting point/freezing point	No data available



Initial boiling point and boiling range	52 °C
Flash point	22 °C
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	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	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity

Not applicable

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

In the event of fire: see section 5



11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Product does not present an acute toxicity hazard based on known or supplied information.
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Eye damage/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

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

May cause long lasting harmful effects to aquatic life.

12.2 Persistence and degradability

No information available

12.3 Bioaccumulation potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available



13. Disposal considerations

13.1 Waste treatment methods

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

14. Transport information

14.1 UN Number			
ADR/RID: 1993	IMDG: 1993	IATA: 1993	
14.2 UN proper shipping name			
ADR/RID: Flammable liquid, n.o.s.	IMDG: Flammable liquid, n.o.s.	IATA: Flammable liquid, n.o.s.	
14.3 Transport hazard cla	iss(es)		
ADR/RID: 3	IMDG: 3	IATA: 3	
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			
274, 601, 640D	274	A3	
Classification code F1 Tunnel restriction code (D/E)	EmS-No F-E, S-E	ERG Code 3H	

15. Regulatory information

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

EU legislation

authorisations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission



Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2 Chemical safety assessment

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

15.3 Additional information

No data available

16. Other information

16.1 Information regarding the revision of the safety data sheet

Data compared to the previous version altered.

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

H225Highly flammable liquid and vaporH302Harmful if swallowedH312Harmful in contact with skinH332Harmful 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.

