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## Safety data sheet

according to 1907/2006/EC, Article 31 version: 1

Revision: 05.04.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier: Trade name: Sempervirine nitrate Article number: 83105 CAS Number: 17994-15-9 EC number: 241-909-4 1.2 Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available. Application of the substance / the preparation: Reference substance 1.3 Details of the supplier of the safety data sheet: Manufacturer/Supplier: PhytoLab GmbH & Co. KG Dutendorfer Str. 5-7 D-91487 Vestenbergsgreuth Tel.: Germany/9163/88-327 Fax: Germany/9163/88-456 Mail: ref-substances@phytolab.de Further information obtainable from: PLV MSDS@phytolab.com 1.4 Emergency telephone number: Germany/9163/88-500

#### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008:

GHS0

GHS06 skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.

Acute Tox. 2 H330 Fatal if inhaled.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008: The substance is classified and labelled according to the CLP regulation. Hazard pictograms:



Signal word: Danger Hazard statements: H300+H330 Fatal if swallowed or if inhaled.

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(Contd. of page 1) Precautionary statements P260 Do not breathe dust. Wash hands thoroughly after handling. P264 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. 2.3 Other hazards: Restricted to professional users. The toxicological properties of this compound have not been fully evaluated. Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

3.1 Substances Synonyms: 2,3,4,13-tetrahydro-1H-benz[g]indole[2,3-a]quinolizin-6-ium nitrate Molecular formula: C19H17N2+ × NO3-CAS No. Description 17994-15-9 Sempervirine nitrate Identification number(s) not applicable EC number: 241-909-4 Additional information: chemical product

#### **SECTION 4: First aid measures**

4.1 Description of first aid measures:
General information:
Induce vomiting only with medical help.
Immediately remove any clothing soiled by the product.
After inhalation: Supply fresh air and to be sure call for a doctor.
After skin contact:
Immediately rinse with water.
If skin irritation continues, consult a doctor.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media:

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters:

Protective equipment:

Mount respiratory protective device.

Wear fully protective suit.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures: Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### SECTION 7: Handling and storage

7.1 Precautions for safe handling:
Handling corresponding to laboratory safety guidelines.
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of dust.
Information about fire - and explosion protection: No special measures required.

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(Contd. of page 3) 7.2 Conditions for safe storage, including any incompatibilities: Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in the original receptacle. Information about storage in one common storage facility: Store away from foodstuffs. Further information about storage conditions: Store in the dark. Store in cool, dry conditions in well sealed receptacles. Recommended storage temperature: 15-25 °C Storage class: 6.1B 7.3 Specific end use(s): No further relevant information available. **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters: Ingredients with limit values that require monitoring at the workplace: Not required. Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls:

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Required in case of dust formation.

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Material of gloves:



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Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection:



Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties			
9.1 Information on basic physical and c	chemical properties:		
General Information:			
Physical state:	Solid		
Colour:	According to Certificate of A	According to Certificate of Analysis	
Odour:	No data available.		
Odour threshold:	Not determined.		
Molecular Weight			
Melting point/freezing point:	Undetermined.		
Boiling point or initial boiling point and	boiling		
range:	Undetermined.		
Flammability:	Product is not flammable.		
Dust explosion class:			
Lower and upper explosion limit:			
Lower:	Not determined.		
Upper:	Not determined.		
Flash point:	Not applicable.		
(Minimum) Ignition temperature:	Not determined.		
Decomposition temperature:	Not determined.		
Powder volume resistivity:			
pH:	Not applicable.		
Dissociation constant:			
Viscosity:			
Kinematic viscosity:	Not applicable.		
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Solubility in other solvents:	
Dynamic:	Not applicable.
Solubility:	0-1-1-1-
water:	Soluble
Partition coefficient n-octanol/water (log	
value):	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density:	Not determined.
Density: Relative density:	Not determined.
Vapour density:	Not applicable.
Particle characteristics:	See item 3.
	See liem 5.
9.2 Other information:	
Appearance: Form:	Solid
Important information on protection of healt	
and environment, and on safety.	I
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Molecular weight	337.37 g/mol
Oxidising properties:	Not determined.
Evaporation rate:	Not applicable.
Information with regard to physical hazard	
classes:	۵ 
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	N/ · · ·
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void (Contd. on page 7)



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Desensitised explosives

Void

## SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided:

Stable under constant-temperature (see 7.)

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: Strong oxidising agents.

10.6 Hazardous decomposition products: no data available

### **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity: Fatal if swallowed or if inhaled.

LD/LC50 values relevant for classification:

Quantitative data on the toxicity of the product are not available.

Oral LD50 5 mg/kg (ATE)

Inhalative LC50/4 h 0.05 mg/l (ATE)

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.

Additional toxicological information:

The product should be handled with the care usual when dealing with chemicals.

11.2 Information on other hazards

Endocrine disrupting properties: Substance is not listed.

#### **SECTION 12: Ecological information**

12.1 Toxicity:

Aquatic toxicity:

Quantitative data concerning the ecological properties of the product are not available. 12.2 Persistence and degradability: No further relevant information available.

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(Contd. of page 7) 12.3 Bioaccumulative potential: No further relevant information available. 12.4 Mobility in soil: No further relevant information available. 12.5 Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable. 12.6 Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties. 12.7 Other adverse effects: Remark: Do not release into sewage, water or soil. Additional ecological information: General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### SECTION 13: Disposal considerations

13.1 Waste treatment methods: Recommendation: Dispose product and packaging in accordance with regional environmental laws. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

#### SECTION 14: Transport information . . . . .

	EUEU
Class Label	<ul><li>6.1 Toxic substances.</li><li>6.1 (Contd. on page 9)</li></ul>
14.3 Transport hazard class(es): ADR, IMDG, IATA	()
IMDG, IATA	(Sempervirine nitrate) ALKALOID SALTS, SOLID, N.O.S. (Sempervirine nitrate)
14.2 UN proper shipping name: ADR	UN1544 ALKALOID SALTS, SOLID, N.O.S.
14.1 UN number or ID number: ADR, IMDG, IATA	UN1544



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#### **SECTION 15: Regulatory information**

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

Directive 2012/18/EU: Named dangerous substances - ANNEX I: Substance is not listed. Seveso category H2 ACUTE TOXIC Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II: Substance is not listed.

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#### REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: Substance is not listed.

National regulations:

Information about limitation of use:

When using chemicals, legal regulations have to be regarded (chemical law, maternity protection, protection of minors).

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity – Category 2