

SAFETY DATA SHEET

STROPHANTHIN - Version 2.0

Safety Data Sheet

STROPHANTHIN - PLANT EXTRACT

1. Identification of the substance/mixture

Product Name: STROPHANTHIN - PLANT EXTRACT

Use: Exclusively for technical, research and educational purposes (e.g. chemical analysis, spectroscopic experiments, botanical studies) by adults (18+) only.

Emergency Phone: 112 (EU) | +357-99-123456 (24/7)

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⚠ 2. Hazards identification

Classification (CLP):

H302: Harmful if swallowed

H225: Highly flammable liquid and vapour

GHS Pictograms:



GHS07 - Exclamation mark



GHS02 - Flame

H302: Harmful if swallowed

H225: Highly flammable liquid and vapour

P statements (Precautionary statements):

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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3. Composition/information on ingredients

3.2 Mixture

Substance	CAS No.	Concentration (% w/w)	Classification	Notes
Ethanol	64-17-5	70%	H225	Solvent
g-Strophanthin	630-60-4	Below 1%	H301	Active component
Strophanthus gratus extract	No data	No data	No classification	Natural carrier
Distilled water	7732-18-5	29.4%	No classification	Solvent

i Important Note:
Concentrations determined based on standard Strophanthus gratus extraction process.
Classification based on worst-case scenario for user safety (H302, H225).

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4. First aid measures

Inhalation: Move the affected person to fresh air. If breathing problems occur, call for medical assistance.

Skin contact: Wash thoroughly with soap and water for at least 15 minutes.

Eye contact: Rinse eyes for at least 15 minutes with clean water. Remove contact lenses if present.

Ingestion: ⚠ Immediately contact a doctor or poison center. Do not induce vomiting.

5. Fire-fighting measures

Extinguishing media: Carbon dioxide (CO₂), ABC dry powder, alcohol-resistant foam.

Hazards: Flammable vapours. May form explosive mixtures with air.

Protective measures: Use breathing apparatus and protective clothing.

6. Accidental release measures

Precautions: Secure all ignition sources. Ensure adequate ventilation.

Clean-up: Absorb spilled product with absorbent material (sand, diatomaceous earth). Prevent entry into sewerage system.

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7. Handling and storage

Handling: Use only in well-ventilated areas. Avoid ignition sources.

Storage: Store in a cool (< 25°C), well-ventilated place, away from heat and ignition sources.

8. Exposure controls/personal protective equipment

Limit values:

Ethanol: TWA 1000 ppm (1880 mg/m³) - EU

Personal protective equipment:

- Protective gloves (nitrile, neoprene)
- Safety glasses with side shields
- Protective clothing with long sleeves
- 🧴 Respiratory mask with poor ventilation

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9. Physical and chemical properties

Physical state:	Liquid
Colour:	Golden to brown
Odour:	Characteristic alcoholic
pH:	5.5 - 7.0
Flash point:	13°C (ethanol)
Density:	approx. 0.89 g/cm ³ (20°C)
Water solubility:	Miscible

10. Stability and reactivity

Stability: Stable under recommended storage and use conditions.

Incompatible materials: Strong oxidizers, strong acids, strong bases.

Hazardous decomposition products: Carbon oxides during incomplete combustion.

11. Toxicological information

Acute toxicity:

H302 – Harmful if swallowed (g-strophanthin)

Lethal dose of g-strophanthin: ~5 mg/kg (oral, mice)

At concentration < 1% risk is minimal with proper technical use

Ethanol: LD₅₀ > 5000 mg/kg (rats, oral)

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12. Ecological information

12.1 Toxicity: No data for g-strophanthin. Ethanol: low aquatic toxicity.

12.2 Persistence and degradability: Ethanol – readily biodegradable (> 90% in 28 days).

12.3 Bioaccumulation: Ethanol – low ($\log K_{ow} < 3$).

12.4 Mobility in soil: High mobility due to water solubility.

12.5 PBT and vPvB assessment: Does not meet PBT/vPvB criteria.

12.6 Other adverse effects: No known additional environmental effects.

13. Disposal considerations

Product disposal: Dispose according to local regulations for hazardous waste.

Packaging: Empty thoroughly before disposal. Dispose as hazardous waste.

Waste code: 16 05 06* (laboratory chemicals)

14. Transport information

UN Number: 1170 (ethanol) + 2810 (toxic organic substance)

ADR Class: 3 + 6.1

Small quantity transport: Compliant with ADR 2023 in limited quantities (LQ, up to 30 kg gross, e.g. 4 bottles of 100 ml) with simplified marking (LQ sign).

Transport labels: Flame (class 3) + Skull and crossbones (class 6.1)

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15. Regulatory information

EU Regulations:

- **REACH** (EC) No 1907/2006 - Registration, Evaluation, Authorisation of Chemicals
- **CLP** (EC) No 1272/2008 - Classification, Labelling and Packaging
- **Directive** 2009/161/EC - List of dangerous substances

National regulations: Labour Code Art. 221 (protection against chemical agents)

16. Other information

16.1 Date of preparation: 2024-09-28

16.2 Revision: Version 2.0 - Updated in accordance with CLP Regulation

16.3 Changes: Added detailed information on ingredients and classification

16.4 Data sources: Concentrations determined based on standard *Strophanthus gratus* extraction process, scientific literature, EU regulations

Training information:

Before first use of the product, please read this data sheet and carry out appropriate health and safety training. Product intended exclusively for qualified personnel.

WARNING: Product for analytical and technical purposes only. Not for
consumption.