

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Strophanthidol

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Acute toxicity, Inhalation (Category 2)

Acute toxicity, Dermal (Category 3)

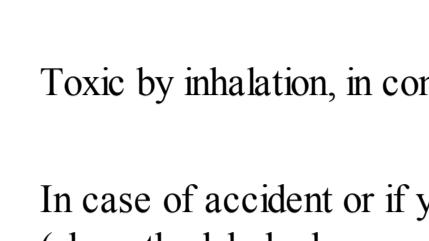
Acute toxicity, Oral (Category 3)

According to European Directive 67/548/EEC as amended.

Toxic by inhalation, in contact with skin and if swallowed.

### Label elements

Pictogram



Signal word Danger

### Hazard statement(s)

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H330 Fatal if inhaled.

### Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing.

P284 Wear respiratory protection.

P310 Immediately call a POISON CENTER or doctor/physician.

### Hazard symbol(s)

T Toxic

### R-phrase(s)

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

### S-phrase(s)

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 3 $\beta$ ,5,14,19-Tetrahydroxy- 5 $\beta$ ,20(22)-cardenolide  
5 $\beta$ ,20(22)-Cardenolide- 3 $\beta$ ,5,14,19-tetrol  
K-Strophanthidol

Formula : C<sub>23</sub>H<sub>34</sub>O<sub>6</sub>

Molecular Weight : 406,51 g/mol

CAS-No.	EC-No.	Classification	Concentration
(3 $\beta$ ,5 $\beta$ )-3,5,14,19-Tetrahydroxy-5 $\beta$ ,20(22)-cardenolide 560-54-3	209-211-4	Acute Tox. 2; Acute Tox. 3; H301, H311, H330 T, R23/24/25	-

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

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### 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. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### 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.

### Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form solid

### Safety data

pH no data available

Melting point no data available

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents, Strong acids, Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Aspiration hazard

no data available

### Potential health effects

Inhalation Toxic if inhaled. May cause respiratory tract irritation.

Skin Toxic if swallowed. May cause respiratory tract irritation.

Eyes Toxic if swallowed through skin. May cause skin irritation.

Signs and Symptoms of Exposure no data available

Toxic to the environment, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Additional Information

RTECS: FH5325000

## 12. ECOTOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service or a chemical incinerator equipped with an afterburner and scrubber. Mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/RID

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((3 $\beta$ ,5 $\beta$ )-3,5,14,19-Tetrahydroxy-5 $\beta$ ,20(22)-enoide)

### IMDG

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((3 $\beta$ ,5 $\beta$ )-3,5,14,19-Tetrahydroxy-5 $\beta$ ,20(22)-enoide)

### UN-Number

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((3 $\beta$ ,5 $\beta$ )-3,5,14,19-Tetrahydroxy-5 $\beta$ ,20(22)-enoide)

### IATA

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((3 $\beta$ ,5 $\beta$ )-3,5,14,19-Tetrahydroxy-5 $\beta$ ,20(22)-enoide)

## 15. REGULATORY INFORMATION

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

## 16. OTHER INFORMATION

### Text of H-code(s) and R-phrase(s) mentioned in Section 3