

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

Product name : Yohimbine hydrochloride

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)

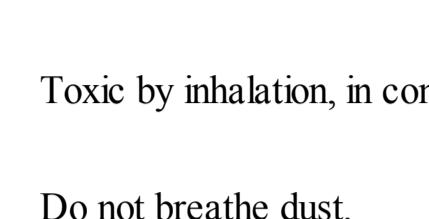
Acute toxicity, Oral (Category 2)

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)

H300 : Fatal 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.

P264 : Wash hands thoroughly after handling.

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)

S22 : Do not breathe dust.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

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 : 17-Hydroxyyohimbani-16-carboxylic acid methyl esterhydrochloride

Formula : C21H26N2O3 · HCl

Molecular Weight : 390,9 g/mol

CAS-No.	EC-No.	Classification	Concentration
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Yohimbine hydrochloride

65-19-0 200-600-4 - Acute Tox. 2; Acute Tox. 3;

Acute Tox. 2; H300, 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.

Light sensitive.

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 : powder

Safety data

pH : no data available

Melting point : 288 - 290 °C - dec.

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

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - mouse : 40 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Ptosis. Behavioral:Muscle contraction or spasticity. Respiratory disorder

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 a 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

Poisonous hazard

no data available

Potential health effects

Inhalation : Toxic if inhaled. May cause respiratory tract irritation.

Skin : Toxic if swallowed. May cause skin irritation.

Eyes : May cause eye irritation. May cause skin irritation.

Signs and symptoms of Exposure

prolonged or repeated exposure blocks 5-hydroxytryptamine receptors. Yohimbine produces competitively, producing a complex pattern of responses which include: inhibition of blood pressure and heart rate, increased motor activity, irritability and tremor, sweating, nausea, and vomiting. It is a selective inhibitor of alpha-2 adrenergic receptors enhancing neural release of norepinephrine. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information

RTECS: ZG101500

12. ECOLOGICAL 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

Dispose all federal, state, and local environmental regulations. Contact a licensed professional waste and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Contact a licensed professional waste and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 1544 Class: 6.1

Packing group: II

Proper shipping name: ALKALOID SALTS, SOLID, N.O.S. (Yohimbine hydrochloride)

IMDG-Number: 1544 Class: 6.1

Packing group: II

Proper shipping name: ALKALOID SALTS, SOLID, N.O.S. (Yohimbine hydrochloride)

Marine pollutant: No

IATA

UN-Number: 1544 Class: 6.1

Packing group: II

Proper shipping name: Alkaloid salts, solid, n.o.s. (Y