

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 29-Apr-2024 Revision Number 1.01

## 1. Identification

Product identifier

Product Name Hyoscyamine

Other means of identification

Product Code(s) DRE-C14270500

Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended use**This product is for research and development only

Restrictions on use Not to be used for human or animal consumption

Details of the supplier of the safety data sheet

#### **Supplier Address**

VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA

Tel:+1 (603) 622-7660 Fax:+1 (603) 622-5180 Email: lgcusa@lgcgroup.com

Web: Igcstandards.com

E-mail sds-request@lgcgroup.com

#### Emergency telephone number

### **Emergency Telephone**

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

## 2. Hazard(s) identification

AGHS / EN Page 1/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

### DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

#### Classification

Classified according to OSHA.

| Acute toxicity - Oral                     | Category 2 |
|---|------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 2 |

### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### Danger

#### Hazard statements

Classified according to OSHA. Fatal if swallowed Fatal if inhaled



### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection

### **Precautionary Statements - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

AGHS / EN Page 2/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

#### Other information

No information available.

## 3. Composition/information on ingredients

#### Substance

Formula C<sub>17</sub>H<sub>23</sub>NO<sub>3</sub>

| Chemical name | CAS No.  | Weight-% | Trade secret |
|---------------|----------|----------|--------------|
| Hyoscyamine   | 101-31-5 | 100      | *            |

### 4. First-aid measures

#### **Description of first aid measures**

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

**Inhalation** If breathing has stopped, give artificial respiration. Get medical attention immediately.

Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is

difficult, (trained personnel should) give oxygen.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Get immediate medical attention. Do NOT induce vomiting. Rinse mouth. Never give

anything by mouth to an unconscious person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more

information.

Most important symptoms and effects, both acute and delayed

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

AGHS / EN Page 3/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

**Note to physicians** Treat symptomatically.

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of

dust. Do not breathe dust. Use personal protective equipment as required. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

### Precautions for safe handling

AGHS / EN Page 4/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA. Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep out of the reach of children.

### 8. Exposure controls/personal protection

Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

#### **Biological occupational exposure limits**

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

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Hand protection** The protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374. Wear protective Viton™ gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

AGHS / EN Page 5/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

General hygiene considerations

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

**Appearance** Crystalline powder

**Color** white

Odor No information available Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No data available Hq None known Melting point / freezing point 108.5 °C / 227.3 °F None known Initial boiling point and boiling rangeNo data available None known Flash point No data available None known No data available None known **Evaporation rate Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownRelative vapor densityNo data availableNone knownRelative densityNo data availableNone knownWater solubility@ 20 °C

Solubility(ies) slightly soluble Chloroform DMSO

Ethanol Methanol

Partition coefficient1.83None known

Autoignition temperatureNo data availableNone knownDecomposition temperatureNone known

Kinematic viscosity

No data available

None known

No data available

None known

None known

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information available

Molecular weight 289.37

VOC contentNo information availableLiquid DensityNo information availableBulk densityNo information available

AGHS / EN Page 6/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine Revision date 29-Apr-2024

## 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Excessive heat.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on

components).

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available. Fatal if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

Acute toxicity

**Numerical measures of toxicity** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

AGHS / EN Page 7/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

## 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

| Chemical name | al name Partition coefficient |  |
|---------------|-------------------------------|--|
| Hyoscyamine   | 1.83                          |  |
| 101-31-5      |                               |  |

Other adverse effects No information available.

AGHS / EN Page 8/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

## 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

DOT

UN number or ID number UN2811

Extended proper shipping name Toxic solids, organic, n.o.s. (Hyoscyamine)

Transport hazard class(es) 6.1
Packing group

Special Provisions IB8, IP2, IP4, T3, TP33

**DOT Marine Pollutant** N

**Description** UN2811, Toxic solids, organic, n.o.s. (Hyoscyamine), 6.1, II

Emergency Response Guide 154

Number

**TDG** 

UN number or ID number UN2811

**UN proper shipping name** Toxic solid, organic, n.o.s. (Hyoscyamine)

Transport hazard class(es) 6.1
Packing group II
Special Provisions 16
Marine pollutant NP

**Description** UN2811, Toxic solid, organic, n.o.s. (Hyoscyamine), 6.1, II

MEX

UN number or ID number UN2811

**UN proper shipping name** Toxic solid, organic, n.o.s. (Hyoscyamine)

Transport hazard class(es) 6.1
Packing group

Technical Name Hyoscyamine

**Description** UN2811, Toxic solid, organic, n.o.s. (Hyoscyamine), 6.1, II

Special Provisions 27

**IATA** 

UN number or ID number UN2811

**UN proper shipping name** Toxic solid, organic, n.o.s. (Hyoscyamine)

AGHS / EN Page 9/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

#### DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

Transport hazard class(es) 6.1
Packing group

Technical Name Hyoscyamine

**Description** UN2811, Toxic solid, organic, n.o.s. (Hyoscyamine), 6.1, II

**Special Provisions** A3, A5 **ERG Code** 6L

IMDG Not regulated

**UN number or ID number** UN2811

**UN proper shipping name** Toxic solid, organic, n.o.s. (Hyoscyamine)

Transport hazard class(es) 6.1
Packing group II
EmS-No. F-A, S-A
Special Provisions 274

Special Provisions 274
Marine pollutant NP

**Description** UN2811, Toxic solid, organic, n.o.s., 6.1, II

## 15. Regulatory information

#### **International Inventories**

**TSCA** 

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

| Chemical name | CAS No.  | Inventory Listing Status | Commercial Activity Designation |
|---------------|----------|--------------------------|---------------------------------|
| Hyoscyamine   | 101-31-5 | Present                  | Inactive                        |

DSL/NDSL

EINECS/ELINCS

Contact supplier for inventory compliance status.

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

AGHS / EN Page 10/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

DRE-C14270500 - Hyoscyamine

Revision date 29-Apr-2024

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. Other information

AGHS / EN Page 11/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 29-Apr-2024

DRE-C14270500 - Hyoscyamine

NFPA Health hazards 4 Flammability 0 Instability 0 Special hazards - HMIS Health hazards 4 Flammability 0 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 29-Apr-2024

**Revision Note**No information available.

**Disclaimer** 

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

**End of Safety Data Sheet** 

AGHS / EN Page 12/12