

Safety Data Sheet (SDS)

Note: For demonstration only. Please send an inquiry to obtain the official version of the SDS file.

Section 1: Identification

1.1 Product Identification

Product Name: Lisdexamfetamine

Product Number: Sigma-1492025198

Brand: Sigma

CAS Number: 608137-32-2

EC Number: Not specified

Molecular Formula: $C_{15}H_{25}N_3O$

Molecular Weight: 263.38 g/mol

Website: Sigma Chemical

1.2 Supplier Details

Company Name: Sigma Chemical Co., Ltd.

Address: Room 2-1-2301, Jiahe Xinxing, No.130, Shandong Road, Shibei District, Qingdao City, Shandong Province, China

Phone Number: +8618661891880

Email: chemweb3@foxmail.com

Business Hours: Monday to Friday: 9:00AM - 6:00PM Saturday: 9:00AM - 1:00PM
Sunday: Closed

1.3 Emergency Contact Number

Emergency Contact: +8618661891880

1.4 Recommended Use and Restrictions

Recommended Use: For research and development purposes only. Not for use as a drug, household product, or in any other unapproved application.

Section 2: Hazard Identification

2.1 GHS Classification

Acute Toxicity: Oral: Category 4, H302 (Harmful if swallowed)

Specific Target Organ Toxicity (Single Exposure): Category 3, H336 (May cause drowsiness or dizziness - CNS effects based on pharmacological properties)

Health Hazard: Category 2, H373 (May cause damage to organs through prolonged or repeated exposure - cardiovascular and CNS systems)

Note: Classification is based on available data for the compound and similar substances (e.g., dimesylate salt). The substance is a CNS stimulant and controlled substance with abuse potential.

2.2 GHS Label Elements

Pictogram: Exclamation mark (GHS07 for acute tox and STOT SE); Skull and crossbones (GHS06 for acute toxicity if severe); Health hazard (GHS08 for STOT RE)

Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed H336 May cause drowsiness or dizziness H373 May cause damage to organs through prolonged or repeated exposure

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash hands thoroughly after handling P270 Do not eat, drink or smoke when using this product P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P314 Get medical advice/attention if you feel unwell P330 Rinse mouth P501 Dispose of contents/container in accordance with local regulations

2.3 Other Hazards

Dust may irritate eyes and respiratory system. Potential for abuse as a Schedule II controlled substance. May cause cardiovascular effects (e.g., tachycardia, hypertension) and CNS stimulation. Not classified as PBT or vPvB.

Section 3: Composition/Information on Ingredients

3.1 Substances

Chemical Name: Lisdexamfetamine Common Names and Synonyms:
(2S)-2,6-Diamino-N-[(1S)-1-methyl-2-phenylethyl]hexanamide;
(2S)-2,6-diamino-N-[(2S)-1-phenylpropan-2-yl]hexanamide CAS Number:
608137-32-2 EC Number: Not specified Concentration: ≈99%

Section 4: First-aid Measures

4.1 Description of Necessary First-aid Measures

If Inhaled: Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following Skin Contact: Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following Eye Contact: Rinse with pure water for at least 15 minutes. Consult a doctor.

Following Ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most Important Symptoms/Effects, Acute and Delayed

Symptoms may include CNS stimulation (e.g., hyperactivity, insomnia, focus enhancement), cardiovascular effects (e.g., tachycardia, hypertension), and in overdose: cardiogenic shock, Takotsubo syndrome, respiratory failure. See Section 11 for more details.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

Treat symptomatically. In overdose, monitor for cardiac and CNS effects; may require mechanical support (e.g., VA-ECMO). Genetic testing for susceptibilities (e.g., FLNC variants) may be relevant.

Section 5: Fire-fighting Measures

5.1 Suitable Extinguishing Media

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

5.2 Specific Hazards Arising from the Chemical

May produce toxic gases (e.g., nitrogen oxides, carbon monoxide) in fire. Flammable under certain conditions.

5.3 Special Protective Actions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental Precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and Materials for Containment and Cleaning Up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Limit Values: No data available

Biological Limit Values: No data available

8.2 Appropriate Engineering Controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual Protection Measures, Such as Personal Protective Equipment (PPE)

Eye/Face Protection: Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin Protection: Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory Protection: Avoid breathing dust. Use a dust mask if dust formation occurs.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance: Solid (assumed, no data available)

Color: No data available

Odor: No data available

Melting Point/Freezing Point: No data available

Boiling Point or Initial Boiling Point and Boiling Range: No data available

Flammability: Flammable (based on GHS icon)

Lower and Upper Explosion Limit/Flammability Limit: No data available

Flash Point: No data available

Auto-Ignition Temperature: No data available

Decomposition Temperature: No data available

pH: No data available

Kinematic Viscosity: No data available

Solubility: No data available

Partition Coefficient: n-octanol/water (log value): No data available

Vapour Pressure: No data available

Density and/or Relative Density: No data available

Relative Vapour Density: No data available

Particle Characteristics: No data available

Section 10: Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No data available

10.4 Conditions to Avoid

Heat, sparks, open flames, incompatible materials.

10.5 Incompatible Materials

Strong oxidizing agents, acids, bases.

10.6 Hazardous Decomposition Products

Nitrogen oxides, carbon oxides.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity: Harmful if swallowed (H302). No specific LD50 data available.

Skin Corrosion/Irritation: No data available

Serious Eye Damage/Irritation: May cause irritation.

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: No data available

STOT - Single Exposure: May cause CNS effects (drowsiness, dizziness, H336)

STOT - Repeated Exposure: May cause damage to CNS and cardiovascular system (H373)

Aspiration Hazard: No data available

Additional Information: As a prodrug of dextroamphetamine, may cause overstimulation, insomnia, weight loss, cardiovascular issues, and in overdose, Takotsubo syndrome, cardiogenic shock.

Section 12: Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulative Potential

No data available

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB Assessment

Not classified as PBT or vPvB.

12.6 Other Adverse Effects

No data available

Section 13: Disposal Considerations

13.1 Disposal Methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose in accordance with local regulations.

Contaminated Packaging: Dispose of as unused product.

Section 14: Transport Information

14.1 UN Number

No data available (not classified as hazardous for transport based on available data)

14.2 UN Proper Shipping Name

No data available

14.3 Transport Hazard Class(es)

No data available

14.4 Packing Group

No data available

14.5 Environmental Hazards

No data available

14.6 Special Precautions for User

No data available

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Controlled substance (DEA Schedule II in US equivalents). Comply with local controlled substance regulations.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.