

# Cytochalasin D SDS | MSDS

## 1.PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

- **Product Name:** Cytochalasin D
- **Catalog Number:** S8184
- **CAS Number:** 22144-77-0
- **IUPAC Name:** 1H -Cycloundec[d ]isoindole-1,11(2H )-dione, 15-(acetyloxy)-3,3a,4,5,6,6a,9,10,12,15-decahydro-6,12-dihydroxy-4,10,12-trimethyl-5- methylene-3-(phenylmethyl)-, (3S ,3aR ,4S ,6S ,6aR ,7E ,10S ,12R ,13E , 15R ,15aR )

### Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

### Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

### Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

## 2. HAZARDS IDENTIFICATION

According to the OSHA Hazard Communication Standard (29 CFR 1910.1200), the product is classified as follows:

### Classification:

- Acute toxicity (Oral): Category 2

### Pictogram:



**Signal Word:** Danger

### Hazard Statements:

- H300: Fatal if swallowed.

**Precautionary Statements:**

- **Prevention:** P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
- **Response:** P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
- **Storage:** P405 Store locked up.
- **Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

**Other Hazards:**

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture:** Substance

**CAS-No.:** 22144-77-0

**Components:**

- **Chemical Name:** 1H -Cycloundec[d ]isoindole-1,11(2H )-dione, 15-(acetyloxy)-3,3a,4,5,6,6a,9,10,12,15-decahydro-6,12-dihydroxy-4,10,12-trimethyl-5- methylene-3-(phenylmethyl)-, (3S ,3aR ,4S ,6S ,6aR ,7E ,10S ,12R ,13E , 15R ,15aR )
- **CAS No.:** 22144-77-0
- **Concentration (% w/w):** >= 90 - <= 100

Actual concentration is withheld as a trade secret.

### 4. FIRST AID MEASURES

**General Advice:** Show this safety data sheet to the doctor in attendance.

**If Inhaled:** After inhalation, move to fresh air.

**In Case of Skin Contact:** Take off immediately all contaminated clothing. Rinse skin with water/shower.

**In Case of Eye Contact:** After eye contact, rinse out with plenty of water. Remove contact lenses.

**If Swallowed:** Give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry), and consult a doctor as quickly as possible.

**Most Important Symptoms and Effects:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**Protection of First-Aiders:** For personal protection see section 8.

**Notes to Physician:** N/A.

## 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder.

**Unsuitable Extinguishing Media:** No limitations of extinguishing agents are given for this substance.

**Specific Hazards During Firefighting:** Combustible. Development of hazardous combustion gases or vapours is possible in the event of fire.

**Hazardous Combustion Products:** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>).

**Specific Extinguishing Methods:** N/A.

**Further Information:** Suppress gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Special Protective Equipment for Firefighters:** Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

- **For non-emergency personnel:** Avoid inhalation of powder. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert.
- **For emergency responders:** For personal protection see section 8.

**Environmental Precautions:** Do not let product enter drains.

**Methods and Materials for Containment and Cleaning Up:** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of powder.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** For precautions see section 2.

**Conditions for Safe Storage:** Keep container tightly closed and dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

**Storage Class:** 6.1A, Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials.

**Recommended Storage Temperature:** -4 °F / -20 °C.

**Storage Stability:** Keep in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:** Contains no substances with occupational exposure limit values.

**Engineering Measures:** N/A.

**Personal Protective Equipment:**

- **Respiratory Protection:** Required when powder is generated. Recommended filter type P3 (based on DIN EN 143, DIN 14387).
- **Hand Protection:** Nitrile rubber gloves (thickness 0.11 mm, break through time 480 min). Full and splash contact: KCL 741 Dermatril-L.
- **Eye Protection:** Safety glasses tested and approved under government standards such as NIOSH (US) or EN 166 (EU).
- **Skin and Body Protection:** Protective clothing.
- **Hygiene Measures:** Change contaminated clothing. Preventive skin protection is recommended. Wash hands after working with substance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Color:** white
- **Odor:** N/A
- **Odor Threshold:** N/A
- **pH:** N/A
- **Melting Point/Range:** 500.09 °F / 260.05 °C (decomposition)
- **Boiling Point/Range:** N/A
- **Flash Point:** N/A
- **Evaporation Rate:** N/A
- **Flammability (solid, gas):** N/A
- **Upper/Lower Explosion Limit:** N/A
- **Vapor Pressure:** N/A
- **Relative Vapor Density:** N/A
- **Relative Density:** N/A
- **Density:** ca. 1.23 g/cm<sup>3</sup> (68 °F / 20 °C) (calculated)
- **Water Solubility:** N/A
- **Partition Coefficient (n-octanol/water):** log Pow: 3.044 (77 °F / 25 °C) (calculated)
- **Autoignition Temperature:** N/A
- **Decomposition Temperature:** 500.09 - 512.69 °F / 260.05 - 267.05 °C
- **Viscosity:** N/A
- **Explosive Properties:** N/A
- **Oxidizing Properties:** N/A
- **Molecular Weight:** 507.62 g/mol

## 10. STABILITY AND REACTIVITY

**Reactivity:** Flammable organic substances in fine distribution may generally assume a powder explosion potential when whirled up.

**Chemical Stability:** The product is chemically stable under standard ambient conditions (room temperature).

**Possibility of Hazardous Reactions:** Violent reactions possible with strong oxidizing agents. Caution: In contact with nitrites, nitrates, or nitrous acid, there is a possible liberation of nitrosamines.

**Conditions to Avoid:** No information available.

**Incompatible Materials:** N/A.

**Hazardous Decomposition Products:** In the event of fire, see section 5.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

- LD50 Oral - Mouse - 36 mg/kg (Remarks: Lit.)
- Inhalation: N/A
- Dermal: N/A

**Skin Corrosion/Irritation:** N/A.

**Serious Eye Damage/Eye Irritation:** N/A.

**Respiratory or Skin Sensitization:** N/A.

**Germ Cell Mutagenicity:** N/A.

### Carcinogenicity:

- **IARC:** No component present at levels  $\geq 0.1\%$  is identified as a probable, possible or confirmed human carcinogen.
- **NTP:** No component present at levels  $\geq 0.1\%$  is identified as a known or anticipated carcinogen.
- **OSHA:** No component present at levels  $\geq 0.1\%$  is on OSHA's list of regulated carcinogens.

**Reproductive Toxicity:** N/A.

**STOT - Single Exposure:** N/A.

**STOT - Repeated Exposure:** N/A.

**Aspiration Hazard:** N/A.

### Additional Information:

RTECS: GZ4850000. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** N/A.

**Persistence and Degradability:** N/A.

**Bioaccumulative Potential:**

- **Component:**

7(S),18(R)-Dihydroxy-16(S),18-dimethyl-10-phenyl[11]cytochalasa-6(12),13(E),19(E)-triene-1,17-dione  
21(R)-acetate

- **Partition coefficient:** log Pow: 3.044 (77 °F / 25 °C) (calculated). Bioaccumulation is not expected.

**Mobility in Soil:** N/A.

**Other Adverse Effects:** N/A.

**Endocrine Disrupting Properties:** N/A.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. Do not mix with other waste. Handle uncleaned containers like the product itself.

## 14. TRANSPORT INFORMATION

**IATA-DGR:**

- **UN/ID No.:** UN 1544
- **Proper Shipping Name:** Alkaloids, powder, n.o.s. (Cytochalasin D)
- **Class:** 6.1
- **Packing Group:** II
- **Labels:** Division 6.1 - Toxic substances
- **Packing Instruction (Cargo/Passenger):** 676 / 669

**IMDG-Code:**

- **UN Number:** UN 1544
- **Proper Shipping Name:** ALKALOIDS, POWDER, N.O.S. (Cytochalasin D)
- **Class:** 6.1
- **Packing Group:** II
- **Labels:** 6.1
- **EmS Code:** F-A, S-A
- **Marine Pollutant:** No

**49 CFR:**

- **UN/ID/NA Number:** UN 1544
- **Proper Shipping Name:** Alkaloids, powder, n.o.s. (Cytochalasin D)
- **Class:** 6.1
- **Packing Group:** II
- **Labels:** Division 6.1 - Toxic substances
- **ERG Code:** 151
- **Marine Pollutant:**

## **16. OTHER INFORMATION**

**Revision Date:** 2026/07/13

**Further Information:** The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.