

## Safety Data Sheet


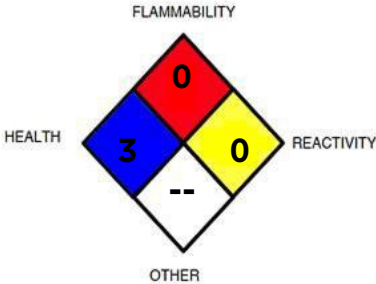
### Section 1: Product & Company Identification

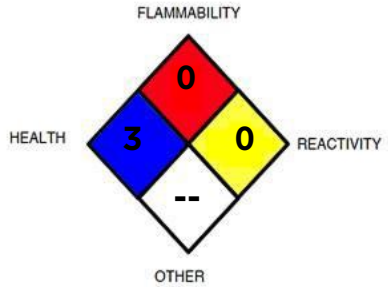
<b>Product Name:</b>	Cytochalasin D
<b>Product #:</b>	C-1070
<b>Synonyms:</b>	Zygosporin A; NSC 209835
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Cytochalasin D	22144-77-0	244-804-1	≥ 95

### Section 3: Hazards Identification

<b>Symbols</b>	
<b>HMIS Classification</b>	<p>FLAMMABILITY</p> <p>HEALTH</p> <p>REACTIVITY</p> <p>OTHER</p> 

<b>NFPA Classification</b>	
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## Section 4: First Aid Measures

<b>General Overview:</b>	Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.
<b>Inhalation:</b>	In case of unconsciousness place patient stably in side position for transportation.
<b>Skin:</b>	Immediately wash with water and soap and rinse thoroughly.
<b>Eyes:</b>	Rinse opened eye for several minutes under running water. Then consult a doctor.
<b>Ingestion:</b>	Do not induce vomiting; immediately call for medical help.
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	Product is not flammable.
<b>Extinguishing Media:</b>	Use firefighting measures that suit the environment. A solid water stream may be inefficient.
<b>Hazardous thermal (de)composition products:</b>	No data available
<b>Special Fire Fighting Procedures:</b>	No data available
<b>Flash Point:</b>	No data available





## Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	Not required.
<b>Environmental Precautions:</b>	Do not allow to enter sewers/ surface or ground water.
<b>Methods for Clean-up:</b>	Dispose contaminated material as waste according to section 13.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Keep container tightly closed. Recommended storage temperature: -20°C
<b>Handling:</b>	Thorough dedusting.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>Not required</p>
<b>Skin and Body:</b>	  <p>Protective gloves and lab coat.</p>
<b>Eyes:</b>	 <p>Not required.</p>
<b>Ventilation/Engineering Measures:</b>	Ensure adequate ventilation.
<b>Hygiene:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Other:</b>	N/A

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Solid, characteristic odor
<b>Formula</b>	$C_{30}H_{37}NO_6$

<b>Molecular Wt.</b>	507.6
<b>Melting Pt.</b>	No data available
<b>Boiling Pt.</b>	No data available
<b>Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	Dichloromethane, DMSO
<b>Flash Point:</b>	No data available
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products:</b>	Carbon oxides, nitrogen oxides
<b>Materials to Avoid:</b>	Strong acids, strong oxidizing agents, strong reducing agents
<b>Conditions to avoid:</b>	No data available

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	GZ4850000
<b>ACUTE Toxicity:</b>	LD50 Oral = 36 mg/kg (mouse) LD50 Intraperitoneal = 900 µg/kg (rat) LD50 Subcutaneous = 1,850 µg/kg (mouse) LD50 Intraperitoneal = 2 mg/kg (mouse)
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	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. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<b>Contaminated Packaging:</b>	Disposal must be made according to official regulations.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	UN2811
<b>ADR / RID (LAND):</b>	N/A
<b>DOT regulations:</b>	<p>Toxic solids, organic, n.o.s. (Cytochalasin D)            Class 6.1 Toxic Substances            Label 6.1            Packing Group II</p> <p>Quantity Limitations</p> <ul style="list-style-type: none"> <li>On passenger aircraft/rail: 25 kg</li> <li>On cargo aircraft only: 100 kg</li> </ul>
<b>IMDG/IMO (SEA):</b>	<p>TOXIC SOLID, ORGANIC, N.O.S. (Cytochalasin D)            Class 6.1 Toxic Substances            Label 6.1            Packing Group II</p> <p>Limited Quantities (LQ): 500 g</p> <p>Excepted Quantities (EQ)</p> <ul style="list-style-type: none"> <li>Code: E4</li> <li>Maximum net quantity per inner packaging: 1 g</li> <li>Maximum net quantity per outer packaging: 500 g</li> </ul>
<b>IATA/DGR (AIR):</b>	Toxic solid, organic, n.o.s. (Cytochalasin D)

	<p>Class 6.1 Toxic Substances Label 6.1 Packing Group II</p> <p>Remarks: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.</p>
<b>Special Provisions:</b>	<p>Warning: Toxic substances Hazard identification number (Kemler code): 60 EMS Number: F-A,S-A Stowage Category: B</p>

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	<p>Danger! H300 Fatal if swallowed. H361 Suspected of damaging fertility or the unborn child.</p>
<b>Risk Phrases:</b>	<p>P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.</p>
<b>Safety Phrases:</b>	<p>P301+P310 If swallowed: Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P330 Rinse mouth. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional /national/international regulations.</p>
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	<p>TSCA: Not listed California Proposition 65: No products were found</p>
<b>U.S. Federal Regulations:</b>	<p>SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found.</p>



	Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: Acute Toxicity - Oral (Cat. 2), Toxic to Reproduction (Cat. 2)
<b>WHMIS (Canada):</b>	N/A

## SECTION 16: Other Information

**LIABILITY STATEMENT:** *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*