

# GOJIRA FINE CHEMICALS, LLC

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## SAFETY DATA SHEET

### SECTION 1 - CHEMICAL IDENTIFICATION

PRODUCT NAME: Actinomycin D [Actinomycin C<sub>1</sub>] [Dactinomycin]  
SUPPLIER'S NAME: : Gojira Fine Chemicals  
SUPPLIERS ADDRESS: 45386 Majestic Parkway, Suite 7 Bedford Heights, OH  
EMERGENCY CONTACT: :800-255-3924 (ChemTel, Contract # MIS7318160)  
TELEPHONE: :440-252-5397  
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FAX: :888-211-5523

### SECTION 2 - HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H300	Acute toxicity, oral	Category 2
H315	Skin corrosion/irritation	Category 2
H317	Skin Sensitisation	Category 1
H319	Serious eye damage/eye irritation	Category 2
H334	Respiratory Sensitisation	Category 1
H335	Specific target organ toxicity, single exposure; Respiratory tract irritation	Category 3
H340	Germ cell mutagenicity	Category 1
H350	Carcinogenicity	Category 1
H360	Reproductive toxicity	Category 1

#### 2.2 GHS Label elements, including Hazard and Precautionary Statement(s)

##### Pictogram



Signal word: **Danger**

##### Hazard statement(s)

H300	Fatal if swallowed.
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Cause Serious Eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H350	May cause cancer

H360	May damage fertility or the unborn
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**Prevention, Response, Storage and Disposal Precautionary Statement(s)**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285	In case of inadequate ventilation wear respiratory protection
P301 + P310	IF SWALLOWED: Call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see. on this label).
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362 + P364	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

CAS Number:	50-76-0
EINECS Number:	200-063-6
Formula:	C <sub>62</sub> H <sub>86</sub> N <sub>12</sub> O <sub>16</sub>
Molecular Weight:	1,255.40 g/mol

## **SECTION 4 - FIRST-AID MEASURES**

**4.1 Description of first aid measures: General advice:** Consult a doctor and show this safety data sheet.

- i. **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. **In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. **In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. **If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## **SECTION 5 - FIRE FIGHTING MEASURES**

**5.1 Extinguishing media: Suitable extinguishing media:** Dry powder.

**5.2 Special hazards arising from the substance or mixture:** Carbon oxides, nitrogen oxides (NOx).

**5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**5.4 Further information:** no data available

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions:** Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

**6.4 Reference to other sections:** For required PPE see section 8. For disposal see section 13.

## **SECTION 7 - HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: 2 - 8 °C. Keep in a dry place.

**7.3 Specific end use(s):** Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

**Components with workplace control parameters:** No Data Available

### **8.2 Exposure Controls**

- i. **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

### **8.3 Personal protective equipment**

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. **Control of environmental exposure:** Do not let product enter drains

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

<b>Appearance</b>	Dark Red Powder	<b>Vapor Pressure</b>	No Data Available
<b>Odor</b>	No Data Available	<b>Vapor Density</b>	No Data Available
<b>Odor Threshold</b>	No Data Available	<b>Relative Density</b>	No Data Available
<b>pH</b>	No Data Available	<b>Water Solubility</b>	No Data Available
<b>Melting / Freezing Point</b>	251 - 253 °C	<b>Partition Coefficient</b>	No Data Available
<b>Initial Boiling Point Range</b>	No Data Available	<b>Auto-Ignition Temperature</b>	No Data Available
<b>Flash Point</b>	No Data Available	<b>Decomposition Temperature</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available	<b>Viscosity</b>	No Data Available
<b>Flammability (Solid, Gas)</b>	No Data Available	<b>Explosive Properties</b>	No Data Available
<b>Upper / Lower Flammability Or Explosive Limits</b>	No Data Available	<b>Oxidizing Properties</b>	No Data Available

**SECTION 10 - STABILITY AND REACTIVITY****Stability:** Stable under recommended transport or storage conditions.**Conditions to Avoid:** Heat, moisture air or water, incompatibles**Incompatible Materials:** Strong oxidizing agents, Strong acids, Strong bases.**SECTION 11 - TOXICOLOGICAL INFORMATION****Acute Toxicity**

LD50 Oral	LD50 Dermal	LD50 Inhalation
7.2 mg/kg ( Rat )	No Data Available	No Data Available

**SECTION 12 - ECOLOGICAL INFORMATION****Ecotoxicity:** No data available**Persistence and degradability:** No data available**Bioaccumulative potential:** No data available**Mobility in soil:** No data available**Results of PBT and vPvB assessment:** No data available**Other adverse effects:** No data available**Chronic Toxicity:** There are no known carcinogenic chemicals in this product**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14 - TRANSPORT INFORMATION**

	UN#	Proper Shipping Name	Hazard Class	Packaging Group
<b>DOT</b>	2811	TOXIC SOLID, ORGANIC, N.O.S. (CONTAINING ACTINOMYCIN)	6.1	II
<b>TDG</b>	2811	TOXIC SOLID, ORGANIC, N.O.S. (CONTAINING ACTINOMYCIN)	6.1	II
<b>IATA</b>	2811	TOXIC SOLID, ORGANIC, N.O.S. (CONTAINING ACTINOMYCIN)	6.1	II
<b>IMDG/IMO</b>	2811	TOXIC SOLID, ORGANIC, N.O.S. (CONTAINING ACTINOMYCIN)	6.1	II

**SECTION 15 - REGULATORY INFORMATION****INTERNATIONAL INVENTORIES**

TSCA	DSL	NDSL	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
-	-	-	-	-	-	Listed	-	-	-

**USA FEDERAL REGULATION  
SARA 311/312 HAZARDOUS CATEGORIZATION**

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release Of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

**OSHA:** Not Applicable

**CERCLA:** Not Applicable

**TSCA 12(b):** Not Applicable

**SARA 313:** Not Applicable

**Clean Water Act/ Clean Air Act:** Not Applicable

**California Proposition 65:** This product contains the following Proposition 65 chemicals.

Component	CAS Number	California Prop. 65	Prop 65 NSRL	Category
Actinomycin D	50-76-0	Carcinogen Developmental	0.00008 µg/day	Developmental Carcinogen

**HMIS Rating**

Health Hazard	Flammability	Physical Hazard
3	0	0

**NFPA Rating**

Health Hazard	Flammability	Reactivity Hazard
3	0	0

**STATE RIGHT TO KNOW**

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Listed	Listed	Listed	-	Listed

**US DEPARTMENT OF TRANSPORTATION**

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
No	No	No

**U.S. DEPARTMENT OF HOMELAND SECURITY:** This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**This SDS complies with the requirements of Regulation (EC).**

**SECTION 16 - OTHER INFORMATION**

The above information is believed to be accurate and represents the best information currently available to Gojira Fine Chemicals. However, we make no warranty or merchantability or any other warranty, express or Implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gojira Fine Chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gojira Fine Chemicals has been advised of the possibility of such damages.