



## MATERIAL SAFETY DATA SHEET

### Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier:
- Product name: **7-aminoactinomycin D**
- Product no./Catalog #(s): 5121, 6163, 6226
- Internal ID: 7-AAD, 7AAD
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
- Identified uses: For research use only.
- 1.3 Details of the supplier of the safety data sheet:
- Supplier: ImmunoChemistry Technologies, LLC  
9401 James Avenue South, Suite #155  
Bloomington, MN 55431-2500 USA  
[www.immunochemistry.com](http://www.immunochemistry.com)  
1-800-829-3194 and 952-888-8788  
Fax 952-888-8988  
[help@immunochemistry.com](mailto:help@immunochemistry.com)
- Contact person: Sally Hed
- 1.4 Emergency telephone number:  
1-800-829-3194 / 952-888-8788 (Hours: 8 am-6 pm central standard time, Monday-Friday)

### Section 2: Hazards identification

- 2.1 Classification of the substance or mixture:
- Classification (EC 1272/2008)
- Physical and chemical hazards: Not classified.
- Human health: Acute tox. 2 – H300; Acute tox. 1 - H310; Acute Tox. 1 - H330; Skin irrit. 2 – H315; Eye irrit. 2 – H319; STOT Single 3 – H335.
- Environment: Not classified.
- Classification (1999/45/EEC) T+; R26/27/28; Xi; R36/37/38.
- The full text for all R-phrases and hazard statements is displayed in section 16.
- 2.2 Label elements:
- Label in accordance with (EC) No. 1272/2008



- Signal word: Danger.
- Hazard statements:
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310 If swallowed: immediately call a poison control center or doctor/physician.
- P302+350 If on skin: gently wash with plenty of soap and water.
- P302+352 If on skin: wash with plenty of soap and water.
- P305+351+338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison control center or doctor/physician.
- P313 Get medical advice/attention.
- Supplementary precautionary statements:
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash...thoroughly after handling.
- P270 Do not eat, drink, or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P284 Wear respiratory equipment.

P304+340	If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a poison center or doctor/physician if you feel unwell.
P320	Specific treatment is urgent (see...on this label).
P321	Specific treatment (see...on this label).
P322	Specific measures (see...on this label).
P330	Rinse mouth.
P332+313	If skin irritation occurs: get medical advice/attention.
P337	If eye irritation persists:
P361	Remove/take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminate clothing before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to...

## 2.3 Other hazards:

No data available.

**Section 3: Composition/information on ingredients**

3.1 Substances:	Product name:	7-aminoactinomycin D
	CAS-no.:	7240-37-1
	Gross formula:	C <sub>62</sub> H <sub>87</sub> N <sub>13</sub> O <sub>16</sub>

**Section 4: First aid measures**

4.1 Description of first aid measures:	
General information:	Get medical attention.
Inhalation:	Move the exposed person to fresh air at once. Rinse nose and mouth with water. If breathing stops, provide artificial respiration. Get medical attention. Due to the small packaging the risk of inhalation is minimal.
Ingestion:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Skin contact:	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Continue to rinse for at least 15 minutes. Get medical attention.
Eye contact:	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
4.2 Most important symptoms and effects, both acute and delayed:	
General information:	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation:	Difficulty in breathing.
Ingestion:	May cause stomach pain or vomiting.
Skin contact:	Skin irritation.
Eye contact:	May severe irritation to eyes.

4.3 Indication of any immediate medical attention and special treatment needed: No specific first aid measures noted.

**Section 5: Firefighting measures**

5.1 Extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.2 Special hazards arising from the substance or mixture:	
Hazardous combustion products:	In case of fire, toxic gases (CO, CO <sub>2</sub> , NO <sub>x</sub> ) may be formed.
5.3 Advice for firefighters:	
Special firefighting procedures:	No specific firefighting procedure given.
Protective measures in fire:	Wear full protective clothing. Use protective equipment appropriate for surrounding materials.

**Section 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:	Provide adequate ventilation. Wear protective clothing as described in section 8 of this safety data sheet. Avoid inhalation of dust and contact with skin and eyes.
6.2 Environmental precautions:	Avoid discharge into drains, water courses or onto the ground.
6.3 Methods and material for containment and clean up:	Avoid dust formation. Collect in containers and seal securely. Remove containers and flush area with water. Do not contaminate water sources or sewer.
6.4 Reference to other sections:	For waste disposal, see section 13.

**Section 7: Handling and storage**

7.1 Precautions for safe handling:	Avoid handling which leads to dust formation. Avoid inhalation of dust and contact with skin and eyes. Wear protective clothing as described in section 8 of this safety data sheet.
7.2 Conditions for safe storage, including any incompatibilities:	Protect from light. Keep in original container. Store at specified temperature. Refer to product label.
Storage class:	Refer to product data sheet.
7.3 Specific end use(s)	No data available.

**Section 8: Exposure controls/personal protection**

8.1 Control parameters:	
Ingredient comments:	No exposure limits noted for ingredients(s).
8.2 Exposure controls:	

Protective equipment:



Process conditions:	Provide eyewash station.
Engineering measures:	Provide adequate ventilation.
Respiratory equipment:	No specific recommendations. If ventilation is insufficient, suitable respiratory protection must be provided.
Hand protection:	Use suitable protective gloves if risk of skin contact.
Eye protection:	If risk of splashing, wear safety goggles or face shield.
Other protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures:	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking, and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using, do not eat, drink or smoke.
Skin protection:	Wear apron or protective clothing in case of contact.

### Section 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties:	
	Appearance:	Powder, dust.
	Color:	Varying.
	Odor:	No data available.
	Solubility:	No data available.
	Initial boiling point and boiling range:	Not determined.
	Melting point (°C):	Not determined.
	Relative density:	Not determined.
	Vapor density (Air =1):	Not determined.
	Vapor pressure:	Not determined.
	Evaporation rate:	Not determined.
	pH-Value, Conc. Solution	Not determined.
	Viscosity:	Not determined.
	Decomposition temperature (°C):	Not determined.
	Odour threshold, lower:	Not determined.
	Flash point (°C):	Not determined.
	Auto ignition temperature (°C):	Not determined.
	Flammability limit – lower (%):	Not determined.
	Flammability limit – upper (%):	Not determined.
	Partition coefficient (N-octanol/water)	Not determined.
	Explosive properties:	Not determined.
	Oxidizing properties:	Not determined.
9.2	Other information:	No data available.

### Section 10: Stability and reactivity

10.1	Reactivity:	No data available.
10.2	Chemical stability:	No data available. Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	No data available. Hazardous polymerization: will not polymerize.
10.4	Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
10.5	Incompatible materials:	Materials to avoid: Strong oxidizing substances. Strong acids. Strong bases.
10.6	Hazardous decomposition products:	No data available.

### Section 11: Toxicological information

11.1	Information on toxicological effects:	
	Toxicological information:	No information available.
	Skin corrosion/irritation – animal data:	Not determined.
	Serious eye damage/irritation:	Not determined.
	Respiratory sensitization:	Not determined.
	Skin sensitization:	Not determined.
	Germ cell mutagenicity (in vitro):	Not determined.
	IARC:	Not listed.
	Reproductive toxicity:	Not determined.
	STOT-single exposure:	Not determined.
	STOT-repeated exposure:	Not determined.
	Aspiration hazard:	Not determined.
	Inhalation:	Harmful by inhalation.
	Ingestion:	Harmful if swallowed.
	Skin contact:	Harmful in contact with skin. May cause sensitization by skin contact.
	Eye contact:	May cause severe irritation to eyes.
	Health warnings:	Because of the small quantity, the health hazard is small. Knowledge about health hazard is incomplete.

**Section 12: Ecological information**

Ecotoxicity:	No data on possible environmental effects have been found.
12.1 Toxicity: Acute toxicity - fish:	No data available.
12.2 Persistence and degradability:	There are no data on the degradability of this product.
12.3 Bioaccumulative potential:	No data available on bioaccumulation.
12.4 Mobility in soil:	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other adverse effects:	No data available.

**Section 13: Disposal considerations**

General information: waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local waste disposal authority.

13.1 Waste treatment methods: dispose of waste and residues in accordance with local authority requirements.

**Section 14: Transport information**

General: no other information noted.

14.1 UN number:	ADR/RID/ADN: 3462	
	IMDG: 3462	
14.2 UN proper shipping name:	ADR/RID: Toxins extracted from living sources, solid, NOS (7-aminoactinomycin D).	
	IMDG: Toxins extracted from living sources, solid, NOS (7-aminoactinomycin D).	
14.3 Transport hazard class(es):	ADR/RID/ADN: Class 6.1: toxic substances.	
	IMDG: Class 6.1	
Transport labels:		



14.4 Packing group:	ADR/RID/ADN: II	
	IMDG: II	
14.5 Environmental hazards: Environmentally hazardous substance/marine pollutant:	No.	
14.6 Special precautions for user:	No information available.	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	Not applicable.	

**Section 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	
Approved code of practice:	Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
Guidance notes:	Workplace exposure limits EH40.
EU Legislation:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.2 Chemical safety assessment:	No chemical safety assessment has been carried out.

**Section 16: Other information**

General information: only trained personnel should use this material.

SDS No: F17-5121-2-A

Date: April 30, 2013

Risk phrases in full:

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system, and skin.

Hazard statements in full:

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

**DISCLAIMER:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.