

Safety Data Sheet: **7amino Actinomycin D**

Section 1. Identification of the substance/mixture and of the Company

Product identifiers			
Product name	7amino- Actinomycin D	CAS#	7240-37-1
Product Code	AM	EC/ REACH Number	635-285-6
Formula	$C_{62}H_{86}N_{12}O_{16}$	MW	1270.40
RTECS	AU1579000		

Intended uses of the substance or mixture and uses advised against		
Intended use	Uses advised against:	
Only for Research and/or Development	Not for drug, Not to be used in humans or animals. Not food additive	
Details of the supplier of the safety data sheet		
FERMENTEK Itd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887
This company is the manufacturer of the product, and the supplier of the safety data sheet		
REACH	Pre-registered substance. Listed on Annex III	

Section 2. Hazards identification

Classification of the substance or mixture

GHS Classification:

diis diassification.		
Acute Toxicity, Oral	Category 2	H300: Fatal if swallowed
Acute toxicity - Dermal	Category 2	
Acute toxicity - Inhalation	Category 1	
Mutagenicity		H340: May cause genetic defects.
Carcinogenicity		H350: May cause cancer.
Teratogenicity		H360D: May damage the unborn child

GHS Label elements, including precautionary statements

Pictogram:

Signal word: {DANGER}

GHS Hazard Statements

H300:	Fatal if swallowed.	
H310:	Fatal in contact with skin	
H330:	Fatal if inhaled	

GHS Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood
P264	Wash face, hands and any exposed skin thoroughly after handling





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P270 Do not eat, drink or smoke when using this product

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/

doctor.

P308/P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up

Section 3. Composition/information on ingredients

Substance

Name/chemical name	7amino- Actinomycin D
Molecular Formula:	$C_{62}H_{86}N_{12}O_{16}$
Molecular Weight:	1270.40
CAS Registry #:	7240-37-1
Molecular weight	1270.40
EC#:	635-285-6
Concentration	>97%

Mixture

Not mixture.

Section 4. First Aid Measures

General advice	Consult a doctor, as medical attention may be required. Present this safety data sheet to the care giving physician.	
Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.	
Skin Contact:	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.	
Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician	
Inhalation:	Immediate medical attention is required Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Artificial respiration and/or oxygen may be necessary Call a physician Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician	
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions tob protect themselves and prevent spread of contamination.	
Most important symptoms:	No information available.	

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogene oxides.

Advice for firefighters

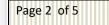
Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit

Further information

No data available











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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

upwind of spill/leak.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from

entering drains.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. Cover powder spill with

plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for

later disposal.

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material

(e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into

suitable containers for disposal.

Section 7. Handling and storage

Precautions for safe handling

Advice on safe handling: **Do not eat, drink or smoke when using this product**.

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe

dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place.

Keep out of the reach of children.

Store at -20 °C.

Incompatible materials: None known based on information available.

Section 8. Exposure Controls/Personal Protection

Control parameters

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits

NO Data Available

NIOSH Recommended Exposure Limits

ACGIH Threshold Limit Values

NO Data Available

NO Data Available

Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.

Personal protective equipment

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[PPE=Personal Protection Equipment]

PPE: Respiratory protection Where risk assessment shows air-purifying respirators are appropriate, use a

full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards

such as NIOSH (US) or CEN (EU).

PPE: Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove

removal techniques to avoid skin contact with this product. Dispose of





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contaminated gloves after use in accordance with applicable laws and good

laboratory practices, and wash and dry hands

PPE: Eye Protection: Use a 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)

PPE: Skin and Body Protection: Handle with gloves. Wear protective clothing. Choose body protection

according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount

of this product, use a complete body suit

Section 9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature Solid / powder

Color Red

Melting/freezing point 240-260°C

No further safety-relevant information is available

Section 10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks, moisture, strong direct light.
Incompatible materials	Strong reducers and oxidizers, Strong acids, Strong bases.
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon monoxide CO, Carbon dioxide (CO2). Nitrogen oxides (NOx)

Section 11. Toxicological information

Information on toxicological effects

Acute Toxicity	LD50 (oral - duck) 1.7 mg/kg	
Skin corrosion/irritation:	Predicted: 50 mg/kg	
Serious eye damage/eye irritation:	no data available	
Respiratory or skin sensitization:	no data available	
Germ cell mutagenicity:	Limited laboratory results have shown mutagenicity in model systems.	
Carcinogenicity:	Mutagenic effects have been observed on tests with laboratory animals.	
Reproductive toxicity / Teratogenicity:	Limited laboratory results have shown reproductive toxicity /teratogenicity in animal models.	
STOT-SE – single exposure (GHS):	no data available	
STOT-RE – repeated exposure (GHS):	no data available	
Aspiration hazard:	no data available	
Potential Health Effects		
Inhalation:	May be harmful if inhaled.	
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Eyes:	May cause eye irritation	
Ingestion	Fatal if swallowed (predicted and based on animal evidence)	
Signs and Symptoms of Exposure		
Skin	There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.	
Eye	There may be severe pain. The eyes may water.	









Oral	There may be soreness and redness of the mouth and throat, vomiting, convulsions, loss of consciousness.
Inhalation	Shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.
Additional information:	RTECS: AU1575000

Section 12. Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.

Section 13. Disposal Considerations

Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

Section 14. Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	US DOT	US DOT	US DOT
UN Number UN proper shipping name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Actinomycin D)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Actinomycin D)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Actinomycin D)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Actinomycin D)
Hazard Class & Packing Group	Class 6.1 pg 2	Class 6.1 pg 2	Class 6.1 pg 2	Class 6.1 pg 2
Additional Transport Information	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.			

Section 15. Regulatory information

Safety, health and environmental regulations/legislation		
USA EPA / TSCA	This product is not listed on the USA EPA TSCA	
EC legislation	Pre-registered substance. Listed on Annex III	
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL	

Section 16. Other information

Date of revision: 09-February-2020 12:09

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of SDS; revision 09-Feb-2020 MGur



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