



Safety Data Sheet: Puromycin-Aminonucleoside

1. Identification of the Substance and of the Company

1.1. Product identifiers

Product name	Puromycin-Aminonucleoside	Formula	$C_{12}H_{18}N_6O_3$
Product Code	PAN	RTECS	AU337000
CAS#	58-60-6		
EC Number #	<u>200-388-3</u>		
Source	Synthetic	Molecular weight	294.36
Synonyms	 3'-amino-3'-deoxy-N,N-dimethyladenosine Aminonucleoside puromycin Stylomycin aminonucleoside 		
Substance? Mixture?	Substance	Date of version	26 November, 2022

1.2. Intended uses of the Substance and uses advised against

1.2.1. Intended use:		1.2.2.	Uses advised against:
Research and development. Laboratory reagent. To be used by professionals only		Not for drug, Not to be used Not food addi	d in humans or animals. tive
1.3. Details of the Manufacturer		1.4.	Emergency Telephone number
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	CHEMTREC da	nd Canada: 1-800-424-9300. Outside USA and Canada:
This company is the manufactu	irer of the product, and the supplier of	the cafety data	cheet

This company is the mandracturer of the product, and the supplier of the safety data

2. Hazards identification

2.1. Classification of the substance

2.1.1. GHS Classification According to EU Reg. 1272/2008 and US OSHA 1910.1200)

STOT RE 2 (specific organ, (Category 2) May cause damage to organs through prolonged or repeated exposure (Kidney)

2.2. GHS Label elements, including precautionary statements

2.2.1.	Pictogram: {	} Signal word {Warning}
2.2.2.	GHS Hazard Stat	tements
H373		May cause damage to organs through prolonged or repeated exposure (Kidney)
2.2.3.	GHS Precaution	ary Statements
P201		Obtain special instructions before use.
P202		Do not handle until all safety precautions have been read and understood.
P264		Wash {hands} thoroughly after handling.
P270		Do not eat, drink or smoke when using this product
2.2.4.	GHS Response P	Phrases
P301+P31	2	If swallowed: consult a poison center/doctor





2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

Substance	
Substance name:	Puromycin-Aminonucleoside
Concentration	100%
CAS Registry#:	58-60-6
EC#:	200-388-3
Molecular Formula:	C12H18N6O3
Molecular Weight:	294.36
Classification	STOT RE 2;H373

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	Consult a physician if necessary. Show this safety data sheet to the doctor in attendance.
Inhalation:	If inhalled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Clean mouth with water
Skin Contact:	If on skin: Wash skin with soap and water
Eye contact:	Rinse eyes with water as a precaution.

4.2. Most important symptoms and effects, both acute and delayed

Observations in mamals	OTHER EFFECTS
	Damage to fetus reported in rodents

4.3. Indication of any immediate medical attention and special treatment needed

None

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	None known

5.2. Other information

Hazardous combustion products	Carbon oxides; Nitrogen oxides
More information	Combustible.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.





6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

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

6.3. 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:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. 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.

7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Store at -20 °C. Some other manufacturers may advice storing temperature 2-8°C.
Suitable packaging	some omer managaciarers may darried storing temperature 2 0 °C.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters	Components with workplace control parameters

8.2. Exposure controls

8.2. Exposure controls		
Appropriate engineering	Showers, Eyewash stations, Ventilation systems	
controls	Avoid contact with skin, eyes, and clothing.	
	Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.	





8.3. Personal protective equipment

[PPE=Personal Protection Equipment]	
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface 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 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. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

9. Physical and chemical properties

9.1. Physical / chemical properties

Physical State at room temperature	Solid / powder	
Color	Off White powder	
Melting/freezing point	180-195°C	
No further rafety relevant data are available		

No further safety relevant data are available

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames, and sparks. Sunlight.
Incompatible materials	Strong reducers and exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products	Nitrogene oxides. Carbon oxides.

11. Toxicological information

11.1. Information on toxicological effects

11.1.1.	Acute Toxicity	
Oral		No data available





11.1.2. Information on likely routes of exposure			
Inhalation	No data available		
Skin corrosion/irritation:	No data available		
Serious eye damage/eye irritation:	No data available		
Respiratory or skin sensitization/corrosion:	No data available		
11.1.3. CMR hazards 🍑 (Carcinogenic,	mutagenic, reprotoxic)		
Mutagenicity	DNA inhibition reported in mice in-vivo at 83 mg/kg intraperitoneal		
Germ cell mutagenicity:	DNA inhibition reported in human lung cell culture in-vitro at 6 mg/L		
Carcinogenicity:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
Reproductive toxicity / Teratogenicity:	Teratogenicity reported in rats, subcutaneous, at 45 mg/kg 8-10 day(s) after conception Effects. Abnormalities in urogenital system		
STOT-SE – single exposure (GHS):	No data available		
STOT-SE – repeated exposure (GHS):	No data available		
Aspiration hazard:	No data available		
11.1.4. Potential Health Effects and Routes of Exposure			
If inhaled	No data available		
If swallowed	No data available		
If on skin	No data available		
If in Eyes	No data available		
11.2. Additional information			
	See section 4		
RTECS number	AU337000		

12. Ecological Information

Toxicity	No data available
Persistence and degradability	This Substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB)
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Endocrine disrupting properties	No data available
Other adverse effects	No further relevant information available.





13. Disposal Considerations

13.1. Waste treatment methods

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

14. Transport information

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

	US DOT	IATA	IMDG	ADR/RID
UN Number UN proper shipping name	Not dangerous for transport and/or not regulated.			
Transport Hazard Class & Packing Group	Not dangerous for transport and/or not regulated.			
			Not marine polutant	

14.2. Addional information

Excepted quantities (EQ)	Not applicable
De Minimis exemption	Not applicable

15. Regulatory information

15.1. Product-specific safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
California proposit. 65	This product is not listed on California proposit. 65 as on Jan 3, 2020
EU ECHA Status	This product is registered with the EU ECHA Number: 200-388-3 REACH: pre registred; ANNEX III: Listed
Canada	This product is not listed on the Canadian DSL/NDSL

16. Other information

16.1. Department issuing this SDS

• Quality systems and regulatory affairs

16.2. General 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.





16.3. The users'/employers' responsibility:

- A risk assessment should be performed by the employer/user prior to use of this product.
- All recommendations included in this document, are advisory in nature.
- The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

16.4. Abbreviations and acronyms:

Acute Tox. Acute toxicity

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DOT: US Department of Transportation

EINECS: European Inventory of Existing Commercial Chemical Substances

Eye Dam.: Serious eye damage/eye irritation

HMIS: Hazardous Materials Identification System (USA)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, Median

LD50: Lethal dose, Median

NFPA: National Fire Protection Association (USA) NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

PBT: Persistent, Bioaccumulative and Toxic

PEL: Permissible Exposure Limit
PPE Personal Protectice Equipment
REL: Recommended Exposure Limit

Repr.: Reproductive toxicity
Skin Irrit: Skin corrosion/irritation

STOT RE: Specific Target Organ Toxicity (Repeated Exposure)
STOT SE: Specific Target Organ Toxicity (Single Exposure)

TLV: Threshold Limit Value

vPvB: very Persistent and very Bioaccumulative

16.5. *End of SDS*





APPENDIX Source: https://www.babelplex.com/a-guide-to-ghs-pictograms/

Toxic	Health Hazard	Irritant
Acute toxicity (oral,	Respiratory	•
dermal,	sensitization (cat. 1)	Acute toxicity (oral,
inhalation) (cat. 1, 2, 3)	Germ cell mutagenicity (cat. 1A,	dermal, inhalation) (cat.
	1B, 2)	4)
	Carcinogenicity (cat. 1A, 1B, 2)	Skin irritation (cat. 2, 3)
	Reproductive toxicity (cat. 1A,	Eye irritation (cat. 2A)
	[1B, 2]	Skin sensitization (cat. 1)
	Specific target organ toxicity	Specific target organ
	following single exposure (cat.	toxicity following single
	(1, 2)	exposure (cat. 3)
	Specific target organ toxicity	Respiratory tract irritation
	following repeated	Narcotic effects
	exposure (cat. 1A, 1B, 2)	
	Aspiration hazard (cat. 1, 2)	
Corrosive	Environmentally	
Corrosive to	Damaging (Liverage Language Liverage Li	
metals (cat. 1)	Acute hazards to the	
Skin corrosion (cat. 1A, 1B,	aquatic environment (cat.1)	
1C)	Chronic hazards to the aquatic	
Serious eye damage (cat. 1)	environment (cat. 1, 2)	