

# **SAFETY DATA SHEET**

**Urine Preservative** 

# Section 1. Identification

Product Identifier: Product code: Product Type:	Urine Preservative 18126, 18128 Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
	CUENTREC

Emergency telephone number (with hours of operation): CHEMTREC U.S. & Canada: 1-800-424-9300

# Section 2. Hazard Identification

Classification of the Substance or mixture: <u>GHS label elements</u>	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
Hazard Pictograms:	
Signal Word:	Warning
Hazard Statements:	H319 - Causes serious eye irritation.
Precautionary statements: Prevention:	P280 - Wear eye or face protection. P264 - Wash thoroughly after handling.



Response:	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage: Disposal:	Not applicable. Not applicable.

### Section 3. Composition/information on ingredients

Substance/mixture:	Mixture
Other means of	
identification:	N/A

Ingredient name	% (w/w)	CAS number
Ethylenediaminetetraacetic acid	10-30	60-00-4
Glycerol	3-7	56-81-5
Sodium azide	0.1-1	26628-22-8

Ranges id listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

#### **Description of necessary first aid measures**

Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and
	lower eyelids. Check for and remove any contact lenses. Continue to rinse for at
	least 20 minutes. Get medical attention.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for
	breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained personnel. It may be dangerous
	to the person providing aid to give mouth-to-mouth resuscitation. Get medical
	attention if adverse health effects persist or are severe. If unconscious, place in
	recovery position and get medical attention immediately. Maintain an open
	airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact:	Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.



Ingestion: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Section 4. First-aid measures

#### Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact:	Causes serious eye irritation.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

### **Over-exposure signs/symptoms**

Eye contact:	Adverse symptoms may include the following:
	Pain or Irritation
	Watering
	Redness
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments: Protection of	No specific treatment.
first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)



# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing	g
media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable	
extinguishing media:	None known.
Specific hazards	
arising from the	
chemical:	No specific fire or explosion hazard.
Hazardous thermal	
decomposition	
products:	Decomposition products may include the following materials:
	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Sulfur oxides, Metal oxides
Special protective	
actions for	
fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective	
equipment for	
fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained
	breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

For non-emergency	
personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency	
responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".



Environmental	
precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways,
	drains and sewers. Inform the relevant authorities if the product has caused
	environmental pollution (sewers, waterways, soil or air).
Methods and materia	als for containment and cleaning up
Small spill:	Stop leak if without risk. Move containers from spill area. Dilute with water and
	mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert
	dry material and place in an appropriate waste disposal container. Dispose of via
	a licensed waste disposal contractor.
Large spill:	Stop leak if without risk. Move containers from spill area. Approach release
	from upwind. Prevent entry into sewers, water courses, basements or confined
	areas. Wash spillages into an effluent treatment plant or proceed as follows.
	Contain and collect spillage with non-combustible, absorbent material e.g. sand,
	earth, vermiculite or diatomaceous earth and place in container for disposal
	according to local regulations (see Section 13). Dispose of via a licensed waste
	disposal contractor. Contaminated absorbent material may pose the same
	hazard as the spilled product. Note: see Section 1 for emergency contact
	information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational	
hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including	
incompatibilities:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.



# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Glycerol	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
	CA Quebec Provincial (Canada, 7/2019).
	TWAEV: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
	CA Saskatchewan Provincial (Canada,7/2013).
	STEL: 20 mg/m <sup>3</sup> 15 minutes. Form: Mist
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
	CA British Columbia Provincial (Canada,1/2020).
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable mist
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total mist
Sodium azide	CA Ontario Provincial (Canada, 1/2018).
	C: 0.29 mg/m <sup>3</sup> , (Dust and fumes) Form: Dust and
	fumes
	C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as
	Hydrazoic acid vapor
	CA Alberta Provincial (Canada, 6/2018).
	C: 0.11 ppm, (Hydrazoic acid vapors) 15 min OEL:
	0.3 mg/m <sup>3</sup> , (Hydrazoic acid vapors) 15 minutes.
	C: 0.29 mg/m <sup>3</sup>
	CA British Columbia Provincial (Canada,5/2019).
	C: 0.29 mg/m <sup>3</sup> , (as sodium azide) C: 0.11 ppm,
	(as Hydrazoic acid vapor)
	CA Quebec Provincial (Canada, 1/2014).
	STEV: 0.11 ppm 15 minutes.
	STEV: 0.3 mg/m <sup>3</sup> 15 minutes.
	CA Saskatchewan Provincial (Canada,7/2013).
	CEIL: 0.11 ppm, (measured as hydrazoic acid
	vapor)
· · · · ·	CEIL: 0.29 mg/m <sup>3</sup> , (measured as sodium azide)
Appropriate engineering	
ontrols:	Good general ventilation should be sufficient to control worker exposure
	to airborne contaminants.

Environmental

exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.



### Individual protection measures

Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin	
protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	
protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.



# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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Appearance:	
Physical State:	Liquid
Color:	Orange
Odor:	Not available.
Odor threshold:	Not available.
pH:	~8
Melting point/	
freezing point:	Not applicable.
Boiling point, initial	
boiling point, and	
boiling range:	Not available.
Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability:	Not available.
Lower and upper	
explosion limit/	
flammability limit:	Not available.
Vapor pressure:	Not available.
Relative vapor	
density:	Not available.
Relative density:	Not available.
Solubility:	Miscible in water.
Partition coefficient:	Not applicable.
n-octanol/water	
Auto-ignition	
temperature:	Not available.
Decomposition	
temperature:	Not available.
Viscosity:	Not available.
Flow time	
(ISO 2431):	Not available.
Particle characteristic	
Median particle size:	Not applicable.



# Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of	
hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible	
materials:	Reactive or incompatible with the following materials; oxidizing materials, acids and alkalis.
Hazardous	
decomposition	
products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicology information

### Information on toxicology effects

Acute toxicity					
Product/ingredient name	Result	Species	Dose	Ехро	sure
Glycerol	LD50 Oral	Rat	12600 mg	g/kg -	
Sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-	
	LD50 Dermal	Rat	50 mg/kg	-	
	LD50 Oral	Rat	27 mg/kg	-	
Irritation/Corrosion					
There is no data available.					
<u>Sensitization</u>					
There is no data available.					
<u>Mutagenicity</u>					
There is no data available.					
<u>Carcinogenicity</u>		-			
Product/ingredient name	IARC	NTP		ACGIH	
Sodium azide	-	-		A4	
Reproductive toxicity					
There is no data available.					
<u>Teratogenicity</u>					
There is no data available.					
Specific target organ toxicity	v (single exposure)				
There is no data available.					
Specific target organ toxicity	<pre>v (repeated exposure)</pre>				
There is no data available.					
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### **Aspiration hazard**

There is no data avai	lable.
Information on the	
likely routes of	
exposure:	Routes of entry anticipated: Oral, dermal, inhalation.
Potential acute healt	th effects
Eye contact:	Causes serious eye irritation.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:	Adverse symptoms may include the following:
	Pain or Irritation
	Watering
	Redness
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

# Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure				
Potential immediate				
effects:	No known significant effects or critical hazards.			
Potential delayed				
effects:	No known significant effects or critical hazards.			
Long term exposure				
Potential immediate				
effects:	No known significant effects or critical hazards.			
Potential delayed				
effects:	No known significant effects or critical hazards.			
Potential chronic health effects				
General:	No known significant effects or critical hazards.			
Carcinogenicity:	No known significant effects or critical hazards.			
Mutagenicity:	No known significant effects or critical hazards.			
Reproductive				
toxicity:	No known significant effects or critical hazards.			



### Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Glycerol	12600	N/A	N/A	N/A	N/A
Sodium azide	27	20	N/A	N/A	N/A

### Section 12. Ecological information

#### **Toxicity** Product/ingredient name Result **Species** Exposure Ethylenediamenetetraacetic Daphnia – Daphnia magna 48 Hours Acute EC50 113000 µg/L – acid (Neonate) Fresh Water Acute EC50 129000 µg/L – Fish – Ictalurus punctatus 96 Hours Fresh Water (Fingerling) Sodium azide Acute EC50 0.348mg/L – Algae – Pseudokirchneriella 96 Hours Fresh Water subcapita Acute EC50 6.4mg/L Crustaceans -Simocephalus serruulatus 48 Hours (Larvae) Acute EC50 4.2 mg/L Daphnia – Daphnia pulex 48 Hours (Larvae) Fish – Lepornis Acute LC50 0.68 mg/L 96 Hours machochirus Fresh water Chronic NOEC 5600 µg/L Algaea – Macrocysta 96 Hours Marine Water pyrifera

### Persistence and degradability

There is no data available.

#### **Bioaccumulative Potential**

Product/ingredient name	LogPow	BCF	Potential
Ethylenediamenetetraacetic acid	-	1.8	Low
Glycerol	-1.76	-	Low

### Mobility in soil

Soil/water partition	
coefficient (K <sub>oc</sub> ):	
Other adverse effects:	

Not available. No known significant effect or critical hazards.



### Section 13. Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	<b>TGD Classification</b>	DOT Classification (US)	IMGD	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper	-	-	-	-
shipping name				
Transport	-	-	-	-
hazard				
class(es)				
Packing group	-	-	-	-
Environmental	No.	No.	No.	No.
hazards				

AERG: DOT (RQ) Details	Not applicable. Ethylenediamenetetraacetic acid	5000 lbs / 2270 kg
Additional informatio	<u>n</u>	
DOT Classification:	Reportable quantity: 28184.9 lbs / 12795.	
	quantities less than the product reportable	
	(reportable quantity) transportation require	rements.
Special precautions		
for user:	<b>Transport within user's premises:</b> always to upright and secure. Ensure that persons tra- do in the event of an accident or spillage.	•
Transport in bulk according to IMO		
instruments:	Not available.	



# Section 15. Regulatory information

<u>Canadian lists</u>	
Canadian NPRI:	None of the components are listed.
CEPA Toxic	
substances:	None of the components are listed.

International regulations		
Chemical Weapon Convention List Schedules I, II, & III Chemicals		
Not listed		
Montreal Protocol		
Not listed		
Stockholm Convention on Persistent Organic Pollutants		
Not listed		
<b>Rotterdam Convention on Prior Informed Consent (PIC)</b>		
Not listed		
UNECE Aarhus Protocol on POPs and Heavy Metals		
Not listed		
Inventory list		
Canada: All components are listed or exempted.		

# Section 16. Other information

History	
Date of issue/Date	
of revision:	09/03/2024
Date of previous	
issue:	12/15/2021
Version:	03
Prepared by:	Norgen Biotek Corp.
Key to abbreviations:	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HPR = Hazardous Products Regulations
	IATA = International Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogP <sub>OW</sub> = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations



#### Procedure used to derive the classification

C	lassification	Justification
SI	ERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.