



TangenX Cassette Preservative

## Sodium Azide/Glycerin Solution

Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

## 1.1. Product Identifier

Cassette Preservative  
Sodium Azide/Glycerin Solution

## 1.2. Recommended Use of Substance/Preparation

Filtration (cassette) Device Preservative

## 1.3. Supplier of Safety Data Sheet

TangenX Technology Corporation  
910 Boston Turnpike Road, Unit #5  
Shrewsbury, MA 01545  
T 508.845.6400 / F 508.845.3030

## 1.4. Emergency and Contact Telephone Number(s)

## ChemTel

**1.800.255.3924** (US, Canada, Puerto Rico, US Virgin Islands)  
**+01.813.248.0585** (International)  
**MIS0007989** (TangenX Contract Number)

## 2. HAZARDS IDENTIFICATION

## 2.1. GHS-US Classification

Not regulated as a GHS hazardous substance.

## 2.2. GHS-US Label Elements

- **Hazards Pictograms (GHS-US)**  
None required.
- **Signal Word (GHS-US)**  
None required.
- **Hazard Statements (GHS-US)**  
None required.
- **Precautionary Statement**  
None required.

## 2.3. Other Hazards / Not Otherwise Classified

No additional information available.

## 2.4. Unknown Acute Toxicity (GHS-US)

No data available.

## 3.0 INGREDIENTS / COMPOSITION INFORMATION

Name	CAS Number	%
Water	7732-18-5	77.89 - 81.91
Glycerin	56-81-5	18 - 22
Sodium Azide	26628-22-8	0.09 - 0.11

## 4. FIRST AID MEASURES

## 4.1. Description of First Aid Measures

- **First-aid measures after inhalation:**  
Remove person to fresh air. If not breathing, administer CPR or artificial respiration. Get immediate medical attention.
- **First-aid measures after skin contact:**  
If skin reddening or irritation develops, seek medical attention.
- **First-aid measures after eye contact:**  
Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
- **First-aid measures after ingestion:**  
If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting unless directed to do so by medical personnel.

## 4.2. Most Important Symptoms and Effects, both acute and delayed

- **Symptoms / injuries after inhalation:**  
May cause respiratory irritation.
- **Symptoms / injuries after skin contact:**  
Frequent or prolonged contact may irritate the skin.
- **Symptoms / injuries after eye contact:**  
May cause irritation.
- **Symptoms / injuries after ingestion:**  
Harmful if swallowed.

## 4.3. Immediate Medical Attention and Special Treatment

No additional information available.

## 5. FIREFIGHTING MEASURES

## 5.1. Extinguishing Media

- **Suitable extinguishing media:**  
Dry chemical, foam, carbon dioxide.

- **Unsuitable extinguishing media:**  
None.

## 5.2. Special Hazards arising from the Substance or Mixture

- **Fire hazard:**  
When heated to decomposition, emits toxic fumes.
- **Explosion hazard:**  
None known.

## 5.3. Advice for Firefighters

- **Protection during firefighting:**  
Firefighters should wear full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

- **For non-emergency personnel:**  
No additional information available.
- **For emergency responders:**  
No additional information available.

## 6.2. Environmental Precautions

Avoid release to the environment.

## 6.3. Methods and Material for Containment and Cleaning Up

- **For containment:**  
Stop the flow of material, if this is without risk.
- **Methods for clean up:**  
Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations.

## 6.4. Reference to Other Sections

No additional information available.

## 7. HANDLING &amp; STORAGE

## 7.1. Precautions for Safe Handling

Avoid breathing vapors.

## 7.2. Conditions for Safe Storage, including any incompatibilities

Store in dry, cool, well-ventilated area. Keep container tightly closed.

## 7.3. Specific end use(s)

Filtration (cassette) Device Preservative

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1. Control Parameters

Sodium Azide (26628-22-8)		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	0.29 mg/m <sup>3</sup>
USA ACGIH	ACGIH Ceiling (ppm)	0.11 ppm
Glycerin (56-81-5)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

## 8.2. Exposure controls

- **Appropriate engineering controls:**  
Local exhaust and general ventilation must be adequate to meet exposure standards.
- **Hand protection:**  
Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.
- **Eye protection:**  
Chemical goggles or safety glasses.
- **Skin and body protection:**  
Wear suitable working clothes.
- **Respiratory protection:**  
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on Basic Physical and Chemical Properties

<input type="checkbox"/> Physical state	: Liquid
<input type="checkbox"/> Color	: White
<input type="checkbox"/> Odor	: Odorless
<input type="checkbox"/> Odor threshold	: No data available
<input type="checkbox"/> pH	: No data available
<input type="checkbox"/> Relative evaporation rate (butylacetate=1)	: No data available
<input type="checkbox"/> Melting point	: 18 °C
<input type="checkbox"/> Freezing point	: No data available

<input type="checkbox"/>	Boiling point	: 171 °C
<input type="checkbox"/>	Flash point	: 390 °C
<input type="checkbox"/>	Self ignition temperature	: No data available
<input type="checkbox"/>	Decomposition temperature	: No data available
<input type="checkbox"/>	Flammability (solid, gas)	: No data available
<input type="checkbox"/>	Vapor pressure	: No data available
<input type="checkbox"/>	Relative vapor density at 20 °C	: No data available
<input type="checkbox"/>	Specific gravity	: 1.2607
<input type="checkbox"/>	Solubility	: Complete
<input type="checkbox"/>	Log Pow	: No data available
<input type="checkbox"/>	Log Kow	: No data available
<input type="checkbox"/>	Viscosity, kinematic	: No data available
<input type="checkbox"/>	Viscosity, dynamic	: No data available
<input type="checkbox"/>	Explosive properties	: No data available
<input type="checkbox"/>	Oxidising properties	: No data available
<input type="checkbox"/>	Explosive limits	: No data available

**9.2. Other Information**

No additional information available.

**10. STABILITY AND REACTIVITY****10.1. Reactivity**

No additional information available.

**10.2. Chemical Stability**

The product is stable at normal handling and storage conditions.

**10.3. Possibility of Hazardous Reactions**

Will not occur.

**10.4. Conditions to Avoid**

None.

**10.5. Incompatible Materials**

Strong acids. Strong bases. Strong oxidizing agents.

**10.6. Hazardous Decomposition Products**

Oxides of carbon.

**11. TOXICOLOGICAL INFORMATION****11.1. Information on Toxicological Effects**

Acute toxicity Harmful if swallowed

Cassette Preservative - Sodium Azide/Glycerin Solution	
ATE (oral)	500.000 mg/kg bodyweight
Sodium Azide (26628-22-8)	
LD50 oral rat	27 mg/kg
Glycerin (56-81-5)	
LD50 dermal rabbit	> 10 g/kg
LC50 inhalation rat (mg/l)	> 570 mg/m <sup>3</sup> (Exposure time: 1 h)
ATE (oral)	12600.000 mg/kg

<input type="checkbox"/>	Skin corrosion/irritation	: Not classified
<input type="checkbox"/>	Serious eye damage/irritation	: Not classified
<input type="checkbox"/>	Respiratory or skin sensitization	: Not classified
<input type="checkbox"/>	Germ cell mutagenicity	: Not classified
<input type="checkbox"/>	Carcinogenicity	: Not classified
<input type="checkbox"/>	Reproductive toxicity	: Not classified
<input type="checkbox"/>	Specific target organ toxicity (single exposure)	: Not classified
<input type="checkbox"/>	Specific target organ toxicity (repeated exposure)	: Not classified
<input type="checkbox"/>	Aspiration hazard	: Not classified

**12. ECOLOGICAL INFORMATION****12.1. Toxicity**

Sodium Azide (26628-22-8)		
LC50 fishes 1	0.8 mg/l	(Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 fish 2	0.7 mg/l	(Exposure time: 96 h - Species: Lepomis macrochirus)
Glycerin (56-81-5)		
LC50 fishes 1	51 - 57 ml/l	(Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

**12.2. Persistence and Degradability**

No additional information available.

**12.3. Bioaccumulative Potential**

Glycerin (56-81-5)	
BCF fish 1	(no bioaccumulation)
Log Pow	-1.76

**12.4. Mobility in Soil**

No additional information available.

**12.5. Other Adverse Effects**

No additional information available.

**13. DISPOSAL CONSIDERATIONS****13.1. Waste Treatment Methods**

■ **Waste disposal recommendations:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**14. TRANSPORT INFORMATION**

- In accordance with DOT.  
 Not regulated for transportation as a dangerous good / hazardous material.

**15. REGULATORY INFORMATION****15.1. US Federal Regulations**

Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Sodium Azide (26628-22-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 302 (Specific toxic chemical listings)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 302 - Threshold Planning Quantity (TPQ)	500 / This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form.
SARA Section 313 - Emission Reporting	1.0%
Glycerin (56-81-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	Y2 - Y2 / Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**15.2. US State Regulations**


■ **Sodium Azide (26628-22-8)**

U.S. - Massachusetts - Right To Know List  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

■ **Glycerin (56-81-5)**

U.S. - Massachusetts - Right To Know List  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

**16. OTHER INFORMATION**

- No additional information available.  
 ■ 22-Feb-2016 Safety data sheet was updated. Revised GHS classification and DOT transport information.  
 ■ This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.  
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