



TangenX Cassette Preservative

## Sodium Hydroxide Solution 0.83% (0.2M)

Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

## 1.1. Product Identifier

Cassette Preservative  
Sodium Hydroxide Solution 0.83% (0.2M)

## 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

Skin Irritation 2  
Eye Irritation 2A  
Metal Corrosion 1

## 2.2. GHS-US Label Elements

## ■ Hazards Pictograms (GHS-US)



## ■ Signal Word (GHS-US)

**WARNING**

## ■ Hazard Statements (GHS-US)

Causes skin irritation  
Causes serious eye irritation  
May be corrosive to metals

## ■ Precautionary Statement(s)

- Keep only in original container.
- Absorb spillage to prevent material damage.
- Store in corrosion resistant container with a resistant inner liner.
- Wash thoroughly after handling.
- Wear eye and face protection and protective gloves.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. For specific treatment, see first aid section. If skin irritation occurs or eye irritation persists, get medical attention.

## 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	99.17
Sodium Hydroxide	1310-73-2	0.83

## 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:**  
Causes skin irritation.
- **Symptoms / injuries after eye contact:**  
Causes serious eye irritation.
- **Symptoms / injuries after ingestion:**  
May be 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:**  
Water spray, 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. Neutralize spill with a weak acid such as vinegar or acetic acid. 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 contact with eyes, skin and clothing.  
Avoid breathing vapors.  
Avoid ingestion and inhalation.

## 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 Hydroxide (1310-73-2)		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 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	: Colorless
<input type="checkbox"/> Odor	: Odorless
<input type="checkbox"/> Odor threshold	: No data available
<input type="checkbox"/> pH	: 13
<input type="checkbox"/> Relative evaporation rate (butylacetate=1)	: No data available
<input type="checkbox"/> Melting point	: No data available
<input type="checkbox"/> Freezing point	: No data available
<input type="checkbox"/> Boiling point	: No data available
<input type="checkbox"/> Flash point	: No data available
<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"/> Relative density	: No data available
<input type="checkbox"/> Solubility	: Soluble
<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

Sodium hydroxide is incompatible with organic materials and oxidizers.

### 10.6. Hazardous Decomposition Products

Toxic fumes of sodium oxide and sodium peroxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

<input type="checkbox"/> Acute toxicity	: Not classified
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Sodium Hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
ATE (dermal)	1350.000 mg/kg

<input type="checkbox"/> Skin corrosion/irritation	: Causes irritation pH: 13
<input type="checkbox"/> Serious eye damage/irritation	: Causes serious irritation pH: 13
<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 Hydroxide (1310-73-2)		
LC50 fishes 1	45.4 mg/l	(Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

### 12.2. Persistence and Degradability

No additional information available.

### 12.3. Bioaccumulative Potential

No additional information available.

### 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

Shipping descriptions are provided for informational purposes and do not consider container sizes. The classification provided is for the product as shipped by the manufacturer identified in section 1 of this Safety Data Sheet. All packaging must be reviewed for suitability prior to shipment by air or vessel, and compliance with the applicable modal regulations is the sole responsibility of the person offering the product for transport.

### U.S. DOT / IATA

- **UN/ID Number** : UN3244
- **Proper Shipping Name** : Solids containing corrosive liquid, n.o.s.  
(sodium hydroxide solution)
- **Hazard Class** : 8
- **Packing Group** : II
- **Exceptions** : Please refer to 49 CFR 173.154 for possible regulatory exceptions

## 15. REGULATORY INFORMATION


### 15.1. US Federal Regulations

- **Water (7732-18-5)**  
Listed on the United States TSCA (Toxic Substances Control Act) inventory
- **Sodium hydroxide (1310-73-2)**  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. US State Regulations

- **Sodium Hydroxide (1310-73-2)**  
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.
- 17-Mar-2016: Section 14 updated to correct shipping name.
- 20-Feb-2016: Safety data sheet was updated. GHS classification and DOT shipping information was changed to reflect product as manufactured and shipped.
- 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.
- TangenX and  are trademarks of TangenX Technology Corporation. ® indicates a TangenX trademark registered in the USA.



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