

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **Denaturation Solution**
Product Code WS0012
CAS Number NA
Other Names
IUPAC NA
MFCD Number NA
EC/EINECS NA
REACH Number NA

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

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4. Emergency telephone number

+1 (760) 476 3961

2. Hazards Identification

1. Classification of the substance or mixture

H317	Skin Sens. 1	R43, R42/43
H320	Eye Irrit. 2B	
H335	STOT SE 3a	R37, R36/37, R36/37/38, R37/38
H413	Aquatic Chronic 4	R53

No Resource File

2. Label elements

Signal Word **Warning**



Hazard Statements

H317	May cause an allergic skin reaction.
H320	Causes eye irritation
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary Phrases

Non Hazardous

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

No Resource File

2. Mixtures

Concentration	Product Name	CAS Number	EC/EINECS
91%	Water	7732-18-5	231-791-2

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7%	β -mercaptoethanol	60-24-2	200-464-6
2%	Sodium dodecyl sulphate	151-21-3	205-788-1

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	Wash immediately with plenty of soap and water. If symptoms arise, call a physician.
<i>Eye Contact</i>	Bathe the eye with running water for 15 minutes. Consult a physician.
<i>Ingestion</i>	Wash out mouth with water. Never give anything by mouth to an unconscious person. Call a physician. Do not induce vomiting without medical advice.
<i>Inhalation</i>	Move to fresh air. If symptoms arise, call a physician. If not breathing, give artificial respiration.

2. Most important symptoms and effects

Material may cause irritation at the point of contact. Prolonged and/or repeat contact may cause skin sensitization or an allergic reaction.

3. Indication of any immediate medical attention

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

5. Firefighting measures

1. Extinguishing Media

<i>Suitable</i>	Suitable extinguishing media for surrounding fire should be used.
<i>Unsuitable</i>	NA

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes of carbon oxides, sodium oxides and sulphur oxides.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Absorb small spills with inert absorbant material. Place in suitable closed container for proper disposal according to local regulations.

4. Preventing the occurrence of secondary hazards.

No data available.

7. Handling and Storage

1. Personal Precautions

<i>Safe Handling</i>	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Handle in accordance with all current regulations and standards.
<i>Protection against explosions and fires</i>	NA

2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store at -20°C according to product labeling.
<i>Storage Controls</i>	Store according to product labeling. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<i>Maintaining Integrity</i>	Store at -20°C according to product labeling. Keep container tightly closed.
<i>Other advice</i>	NA

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	Wear appropriate protective clothing (safety glasses, gloves, laboratory coat). Avoid contact with skin, eyes and clothing. Follow good industrial hygiene and safety procedures.
<i>Engineering measures</i>	Ensure there is sufficient ventilation of the area.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields or a face-shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN166 (EU).
<i>Hand protection</i>	Protective 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. Wash and dry hands.
<i>Respiratory protection</i>	Respiratory protection not generally required when under conditions of normal use.
<i>Skin protection</i>	Wear appropriate protective clothing (safety glasses, gloves, laboratory coat).
<i>Other personal protection advice</i>	NA

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Clear liquid
Odour	Stench
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

NA

10. Stability and Reactivity

1. Reactivity

No dangerous reaction known under conditions of normal use.

2. Stability

Stable under recommended storage conditions.

3. Possibility of Hazardous Reactions

No data available.

4. Conditions to Avoid

Strong oxidizing agents.

5. Incompatible Materials

Oxidising agents.

6. Hazardous Decomposition Products

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In combustion emits toxic fumes of carbon oxides, nitrogen oxides, sodium oxides or sulphur oxides.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	No data available.
<i>Skin corrosion/irritation</i>	May be harmful if absorbed through the skin. May cause skin irritation.
<i>Serious eye Damage/irritation</i>	May cause eye irritation.
<i>Respiratory or skin sensitisation</i>	May be harmful if inhaled. May cause skin sensitization with prolonged and/or repeat exposure.
<i>Germ Cell mutagenicity</i>	No data available.
<i>Carcinogenicity</i>	No data available.
<i>Reproductive toxicity</i>	No data available.
<i>STOT-single exposure</i>	No data available.
<i>STOT-repeated exposure</i>	No data available.
<i>Aspiration hazard</i>	May be harmful if inhaled. Possibility of allergic response arising from prolonged/repeated exposure in sensitive individuals.

2. Additional

To the best of our knowledge, the toxicological, carcinogenic and mutagenic properties have not been thoroughly investigated.

12. Ecological Information

1. Toxicity

May cause long-term adverse effects in the aquatic environment.

2. Persistence and degradability

No data available.

3. Bio-Accumulative Potential

No data available.

4. Mobility and Soil

No data available.

5. Results of PBT & vPvB assessment

No data available.

6. Other adverse effects

No data available.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Do not allow product to reach sewage system. Use a licensed disposal company. Dispose of according to current regulations and standards.

Disposal of Packaging Dispose of as unused product.

14. Transport Information

Air (ICAO)

- UN Number:**
- Shipping Name:** None Hazardous
- Transport hazard class(es):** : Sub Class :
- Packing group:**
- Environmental hazards:**
- Special Precautions for user:**
- Transport in bulk:**

Road (ADR)

Safety Data Sheet

1. **UN Number:**
2. **Shipping Name:** None Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Sea (IMDG)

1. **UN Number:**
2. **Shipping Name:** None Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

No data available.

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road); RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail); IMDG: International Maritime Code for Dangerous Goods; IATA: International Air Transport Association; IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association; ICAO:International Civil Aviation Organization; ICAO-TI: Technical Instructions by the ICAO; GHS: Globally Harmonized System of Classification and Labelling of Chemicals; CAS:Chemical Abstracts Service

2. Associated risk phrases according to european directive 67/548/EEC

R36/37	Irritating to eyes and respiratory system.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R42/43	May cause sensitization by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R53	May cause long-term adverse effects in the aquatic environment.



3. Disclaimer

Safety Data Sheet

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.

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