

## MATERIALS SAFETY AND DATA SHEET

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### SECTION 1 - PRODUCT IDENTIFICATION

- 1.1 Product name:** SAFER (Stabilization of Nucleic Acid Formulation for Evaluation of RNA)
- 1.2 Product use:** To stabilize nucleic acid in body fluids

### SECTION 2 - HAZARDS IDENTIFICATION

#### 2.1 Classification of the Substance or Mixture

**Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**

H302 – Acute toxicity – Harmful if swallowed (Category 4)

H315 - Causes skin irritation (Category 2)

H319 - Causes serious eye irritation (Category 2A)

#### 2.2 Label Elements

##### GHS LABEL ELEMENTS AND CLASSIFICATION

###### GHS Label Elements



**SIGNAL WORD**  
WARNING

###### PRECAUTIONARY STATEMENTS

###### PREVENTION

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product.

###### RESPONSE

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

###### DISPOSAL

P501 Dispose of contents/ container to an approved waste disposal plant

#### 2.3 Other Hazards

None found.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

#### Chemical Names/Description

Proprietary

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of First Aid Measures

- Inhalation:** If breathed in, move person to fresh air. If person not breathing, give artificial respiration. If symptoms persist, call a doctor.
- Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician.
- Skin:** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing. Immediate medical attention is required.
- Eyes:** Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Skin:** Skin irritation. Reddening or inflammation on prolonged contact.
- Eyes:** Eye irritation. Pain, redness, blurred vision.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Unknown/not applicable

## SECTION 5 - FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

- Suitable extinguishing media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Alcohol-resistant foam. Dry chemical. Carbon dioxide

**Unsuitable extinguishing media:** No information available.

## 5.2 Special Hazards Arising from the Substance/Mixture

**Hazardous Combustion Products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride.

**Hazardous Decomposition Products:** Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides hydrogen chloride.

## 5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit.

## 5.4 Further Information

No data available.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

## 6.1 Personal Precautions

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Wear appropriate protective equipment as specified in Section 8.

## 6.2 Environmental Precautions

Prevent discharge into the environment. Dike spills and stop leakage where practical. Prevent further leakage or spillage if safe to do so. Do not allow material to enter drains.

## 6.3 Methods and Materials for Containment and Cleaning Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 6.4 References to Other Sections

For disposal information, see Section 13. For protective clothing and equipment, see Section 8.

# SECTION 7 - HANDLING AND STORAGE

## 7.1 Precautions for Safe Handling

Always wear recommended Personal Protective Equipment. Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Do not ingest.

## 7.2 Conditions for Safe Storage (including any incompatibles)

Keep in a properly labelled and tightly closed container, stored in a cooled, dry, well-ventilated place.

**Incompatibles** : Strong acids and strong oxidizing agents.

## 7.3 Specific End Uses

Investigational research by professional users.

# SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

## 8.1 Control Parameters

**ACGIH Threshold Limit Value (TLV):** None Established

**OSHA Permissible Exposure Limit (PEL):** None established

## 8.2 Exposure Controls

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Eye Protection:** Use chemical safety goggles and/or a full-face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**Skin Protection:** Handle with gloves. 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.

Glove material: Nitrile rubber with thickness (mm) :5 Break through time (hours) :1. Recommended glove type has not been tested for use with this product. Information is based on professional knowledge.

**Skin and Body Protection:** Wear laboratory coat for body protection.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical & Chemical Properties

<b>Appearance</b>	Transparent liquid	<b>Odor</b>	None
<b>Odor Threshold</b>	N.A.	<b>pH</b>	N.A.
<b>Melting/Freezing Point (°C)</b>	No data available.	<b>Boiling point (°C)</b>	No information found
<b>Flash Point (°C)</b>	N.A.	<b>Evaporation Rate</b>	No information found
<b>Flammability</b>	N.A.	<b>Upper/Lower Flammability or Explosive Limits</b>	N.A.
<b>Vapor Pressure</b>	No information found	<b>Vapor Density (Air = 1)</b>	No information found
<b>Relative Density</b>	No information found	<b>Water Solubility</b>	Soluble
<b>Partition Coefficient n-octanol/water</b>	log Pow -11.7	<b>Autoignition Temperature (°C)</b>	N.A.
<b>Decomposition Temperature (°C)</b>	N.A.	<b>Viscosity</b>	No data available.
<b>Explosive Properties</b>	N.A.	<b>Oxidizing Properties</b>	Not an Oxidizer

## SECTION 10 - STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	Non-reactive under ordinary conditions of use.
<b>10.2 Chemical Stability:</b>	Stable under ordinary conditions of use and storage.
<b>10.3 Possibility of Hazardous Reactions:</b>	Will not occur under normal conditions of use (See Sections 10.4 & 10.5).
<b>10.4 Conditions to Avoid:</b>	No information found.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing agents.
<b>10.6 Hazardous Decomposition Products:</b>	Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen chloride.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Product LD50 Values

**Oral Rat LD50 (mg/kg)** N.A.

**Dermal Rabbit LD50**      N.A.  
(mg/kg)

**Potential Health Effects**

**Inhalation:**                      Substance has low toxicity by inhalation

**Ingestion:**                      Harmful if swallowed.

**Skin:**                              Mild skin irritant.

**Eyes:**                             Causes irritation. Solutions are severe irritants to the eye.

**Carcinogenicity:**              No information found.

**Mutagenicity:**                 Insufficient information.

**Reproductive Toxicity:**      No information found.

**Teratogenic Effects:**         No information found.

**Routes of Entry:**              Inhalation or ingestion. Not likely to be absorbed through the skin in harmful amounts.

**Target Organ Statement:**     Bladder, kidneys.

**SECTION 12 - ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Aquatic Toxicity (ppm unless otherwise noted)	<b>Vertebrates</b> No data	<b>Invertebrates</b> No data	<b>Algae</b> No data	<b>Microorganisms</b> No data
Terrestrial Environment Toxicity (ppm unless otherwise noted)	<b>Birds</b> No data	<b>Arthropods</b> No data	<b>Plants</b> No data	<b>Microorganisms</b> No data

<b>12.2 Persistence and Degradability:</b>	No data
<b>12.3 Bioaccumulative Potential:</b>	No data
<b>12.4 Mobility in Soil:</b>	No data
<b>12.5 Results of PBT and vPvB Assessment:</b>	No data
<b>12.6 Other Adverse Effects:</b>	None

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

## SECTION 14 - TRANSPORT INFORMATION

	<b>ADR/RID</b>	<b>IATA</b>	<b>IMO</b>	<b>DOT</b>
<b>14.1 UN Number</b>	N.A.	N.A.	N.A.	N.A.
<b>14.2 Shipping Name</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.3 Hazard Class</b>	N.A.	N.A.	N.A.	N.A.
<b>14.4 Packing Group</b>	N.A.	N.A.	N.A.	N.A.
<b>14.5 Environmental Hazards</b>	N.A.	N.A.	N.A.	N.A.
<b>14.6 Special Precautions</b>	N.A.	N.A.	N.A.	N.A.

## SECTION 15 – OTHER INFORMATION

N.A.