



09/15/2025

## Kit Components

Product code	Description
<b>ENZ-KIT129</b>	<b>Cellular senescence activity assay</b>

Components:

ENZ-KIT129-1	2X Cell Lysis Buffer
ENZ-KIT129-2	2X Reaction Buffer
ENZ-KIT129-3	SA- $\beta$ -Gal Substrate
ENZ-KIT129-4	Stop Solution

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

### 1 Identification

#### Product identifier

- **Trade name:** 2X Cell Lysis Buffer

#### Other means of identification

- **Article number:** ENZ-KIT129-1

#### **Application of the substance / the mixture**

Research Use Only (RUO)! Not for human or veterinary use.

This product is considered to be laboratory chemicals intended only as an analytical tool for quantitative/qualitative determination and is not validated nor intended for diagnostic purposes.

#### Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

Enzo Biochem  
10 Executive Blvd.  
FARMINGDALE, NY 11735  
USA

#### Emergency telephone number:

For United States, Canada, Puerto Rico, and the U.S. Virgin Islands, contact: +1 (800) 704-9215

For international, contact: +1 (360) 256-7365

### 2 Hazard(s) identification

#### Classification of the substance or mixture



GHS08 Health hazard

Reproductive toxicity 1A

H360 May damage fertility or the unborn child.



GHS07

Skin irritation 2

H315 Causes skin irritation.

Eye irritation 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) 3

H335 May cause respiratory irritation.

#### Label elements

##### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

##### Hazard pictograms



GHS07



GHS08

##### Signal word Danger

##### Hazard-determining components of labeling:

CHAPS hydrate

(Contd. on page 2)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 1)

**Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
May damage fertility or the unborn child.  
May cause respiratory irritation.

**Precautionary statements**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
If on skin: Wash with plenty of water.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Call a poison center/doctor if you feel unwell.  
Specific treatment (see on this label).  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Information pertaining to particular dangers for man and environment:****Classification system:****NFPA ratings (scale 0 - 4)**

Health = 2  
Fire = 0  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = \*2  
Fire = 0  
Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

**Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

(Contd. on page 3)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 2)

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

331717-45-4 CHAPS hydrate

1-5%

### 4 First-aid measures

**Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

· **Protective equipment:** No special measures required.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**Protective Action Criteria for Chemicals****PAC-1:**

None of the ingredients is listed.

(Contd. on page 4)

us

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 3)

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### \* 7 Handling and storage

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Specific end use(s)** No further relevant information available.

### \* 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

(Contd. on page 5)

US

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 4)

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

100 °C (212 °F)

· **Flammability:**

Not applicable.

· **Explosion limits:**

Not determined.

· **Lower:**

Not determined.

· **Upper:**

Not applicable.

· **Flash point:**

Not determined.

· **Decomposition temperature:**

Not determined.

· **pH-value:**

Not determined.

· **Viscosity:**

Not determined.

· **Kinematic:**

Not determined.

· **Dynamic:**

Not determined.

(Contd. on page 6)

us

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 5)

· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Vapor pressure at 20 °C (68 °F):</b>	23 hPa (17.3 mm Hg)
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Particle characteristics</b>	Not applicable.
· <b>Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>Water:</b>	≤98.0 %
· <b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions** No dangerous reactions known.
  - **Conditions to avoid** No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### · **Information on toxicological effects**

#### · **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### **ATE (Acute Toxicity Estimate)**

Oral	LD50	25,000 mg/kg
------	------	--------------

#### · **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

#### · **Sensitization:** No sensitizing effects known.

(Contd. on page 7)

- US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 6)

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· **Interactive effects** No interactive effects between components are known.

**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

## 12 Ecological information

**Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability:** No further relevant information available.

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

**Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**Other adverse effects**

· **Additional ecological information:**

· **General notes:** Not hazardous for water.

## 13 Disposal considerations

**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

us

(Contd. on page 8)

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 7)

### 14 Transport information

<b>UN-Number</b>	
· DOT, IMDG, IATA	not regulated
<b>UN proper shipping name</b>	
· DOT, IMDG, IATA	not regulated
<b>Transport hazard class(es)</b>	
· DOT, ADN, IMDG, IATA	
· Class	not regulated
<b>Packing group</b>	
· DOT, IMDG, IATA	not regulated
<b>Environmental hazards:</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Special precautions for user</b>	Not applicable.
<b>UN "Model Regulation":</b>	not regulated

### 15 Regulatory information

\* **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

**Sara****Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

7732-18-5 water, distilled, conductivity or of similar purity

ACTIVE

**Hazardous Air Pollutants**

None of the ingredients is listed.

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

(Contd. on page 9)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 8)

**· Carcinogenic categories****· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms**

GHS07



GHS08

**· Signal word Danger****· Hazard-determining components of labeling:**

CHAPS hydrate

**· Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May damage fertility or the unborn child.

May cause respiratory irritation.

**· Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

If on skin: Wash with plenty of water.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

US

(Contd. on page 10)

## Safety Data Sheet

### acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Cell Lysis Buffer

(Contd. of page 9)

### 16 Other information

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY (RUO), NOT FOR HUMAN OR VETERINARY DIAGNOSTIC USE.

While this SDS is based on technical data deemed reliable, Enzo Biochem does not assume responsibility for product related compliances, completeness or accuracy of the information contained herein. Users shall consider this data only as a supplement to other information gathered to make an independent scientific determination for product related compliance, suitability and completeness to assure proper use, environmental protection, distribution, storage, disposal, health and safety.

· **Department issuing SDS:** MFG, RA, QA.

· **Contact:** SDS@Enzo.com

· **Date of previous version** 09/15/2025

· **Date of preparation** 09/15/2025

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Reproductive toxicity 1A: Reproductive toxicity – Category 1A

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

· \* **Data compared to the previous version altered.**

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

### 1 Identification

#### Product identifier

- **Trade name:** 2X Reaction Buffer

#### Other means of identification

- **Article number:** ENZ-KIT129-2

#### **Application of the substance / the mixture**

Research Use Only (RUO)! Not for human or veterinary use.

This product is considered to be laboratory chemicals intended only as an analytical tool for quantitative/qualitative determination and is not validated nor intended for diagnostic purposes.

#### Details of the supplier of the safety data sheet

##### **Manufacturer/Supplier:**

Enzo Biochem  
10 Executive Blvd.  
FARMINGDALE, NY 11735  
USA

#### **Emergency telephone number:**

For United States, Canada, Puerto Rico, and the U.S. Virgin Islands, contact: +1 (800) 704-9215

For international, contact: +1 (360) 256-7365

### 2 Hazard(s) identification

#### Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

#### Label elements

- **GHS label elements** Void

- **Hazard pictograms** Void

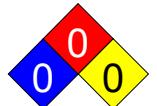
- **Signal word** Void

- **Hazard statements** Void

#### Information pertaining to particular dangers for man and environment:

##### **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

#### Other hazards

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

#### **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

(Contd. on page 2)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Reaction Buffer

(Contd. of page 1)

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

- Description:** Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:** Void

### 4 First-aid measures

**Description of first aid measures**

- General information:** No special measures required.
- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Generally the product does not irritate the skin.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** If symptoms persist consult doctor.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**

- Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

- Protective equipment:** No special measures required.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Protective Action Criteria for Chemicals**

**PAC-1:**

None of the ingredients is listed.

**PAC-2:**

None of the ingredients is listed.

(Contd. on page 3)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Reaction Buffer

(Contd. of page 2)

· **PAC-3:**

None of the ingredients is listed.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **Precautions for safe handling** No special measures required.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

US

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Reaction Buffer

(Contd. of page 3)

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

**· Information on basic physical and chemical properties****· General Information**

· <b>Physical state</b>	Liquid
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flammability:</b>	Not applicable.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Particle characteristics</b>	Not applicable.

**· Other information****· Appearance:**

· **Form:** Liquid

**· Important information on protection of health and environment, and on safety.****· Ignition temperature:**

Product is not selfigniting.

**· Danger of explosion:**

Product does not present an explosion hazard.

**· Solvent content:**

0.00 %

**· VOC content:**

0.0 g/l / 0.00 lb/gal

(Contd. on page 5)

us

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Reaction Buffer

(Contd. of page 4)

- **Change in condition**
- **Evaporation rate** Not determined.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions** No dangerous reactions known.
  - **Conditions to avoid** No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

(Contd. on page 6)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Reaction Buffer

(Contd. of page 5)

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects**
  - **Additional ecological information:**
  - **General notes:** Not hazardous for water.

### 13 Disposal considerations

**Waste treatment methods**

- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

**UN-Number**

- DOT, IMDG, IATA not regulated

**UN proper shipping name**

- DOT, IMDG, IATA not regulated

**Transport hazard class(es)**

- DOT, ADN, IMDG, IATA
  - Class not regulated

**Packing group**

- DOT, IMDG, IATA not regulated

**Environmental hazards:**

Not applicable.

**Transport in bulk according to Annex II of****MARPOL73/78 and the IBC Code**

Not applicable.

**Special precautions for user**

Not applicable.

**UN "Model Regulation":**

not regulated

### 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

(Contd. on page 7)

US

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Reaction Buffer

(Contd. of page 6)

**· Sara****· Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**· Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**· TSCA (Toxic Substances Control Act):**

None of the ingredients is listed.

**· Hazardous Air Pollutants**

None of the ingredients is listed.

**· Proposition 65****· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories****· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· GHS label elements** Void**· Hazard pictograms** Void**· Signal word** Void**· Hazard statements** Void**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY (RUO), NOT FOR HUMAN OR VETERINARY DIAGNOSTIC USE.

While this SDS is based on technical data deemed reliable, Enzo Biochem does not assume responsibility for product related compliances, completeness or accuracy of the information contained herein. Users shall consider this data only as a supplement to other information gathered to make an independent scientific determination for product related compliance, suitability and completeness to assure proper use, environmental protection, distribution, storage, disposal, health and safety.

**· Department issuing SDS:** MFG, RA, QA.

(Contd. on page 8)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** 2X Reaction Buffer

(Contd. of page 7)

- **Contact:** SDS@Enzo.com
- **Date of previous version** 09/15/2025
- **Date of preparation** 09/15/2025

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

- \* **Data compared to the previous version altered.**

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

### 1 Identification

#### Product identifier

- **Trade name:** SA- $\beta$ -Gal Substrate

#### Other means of identification

- **Article number:** ENZ-KIT129-3

#### **Application of the substance / the mixture**

Research Use Only (RUO)! Not for human or veterinary use.

This product is considered to be laboratory chemicals intended only as an analytical tool for quantitative/qualitative determination and is not validated nor intended for diagnostic purposes.

#### Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

Enzo Biochem  
10 Executive Blvd.  
FARMINGDALE, NY 11735  
USA

#### Emergency telephone number:

For United States, Canada, Puerto Rico, and the U.S. Virgin Islands, contact: +1 (800) 704-9215

For international, contact: +1 (360) 256-7365

### 2 Hazard(s) identification

#### Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

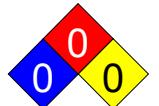
#### Label elements

- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

#### Information pertaining to particular dangers for man and environment:

##### Classification system:

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

##### HMIS-ratings (scale 0 - 4)



Health = 0  
Fire = 0  
Reactivity = 0

#### Other hazards

##### Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

#### Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

(Contd. on page 2)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** SA- $\beta$ -Gal Substrate

(Contd. of page 1)

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

- Description:** Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:** Void

### 4 First-aid measures

**Description of first aid measures**

- General information:** No special measures required.
- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Generally the product does not irritate the skin.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** If symptoms persist consult doctor.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**

- Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

- Protective equipment:** No special measures required.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Protective Action Criteria for Chemicals**

**PAC-1:**

None of the ingredients is listed.

**PAC-2:**

None of the ingredients is listed.

(Contd. on page 3)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** SA- $\beta$ -Gal Substrate

(Contd. of page 2)

· **PAC-3:**

None of the ingredients is listed.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **Precautions for safe handling** No special measures required.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

US

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** SA- $\beta$ -Gal Substrate

(Contd. of page 3)

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

**· Information on basic physical and chemical properties****· General Information**

· <b>Physical state</b>	Liquid
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flammability:</b>	Not applicable.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Particle characteristics</b>	Not applicable.

**· Other information****· Appearance:****· Form:****· Important information on protection of health and environment, and on safety.****· Ignition temperature:****· Danger of explosion:****· Solvent content:****· VOC content:**

Liquid

Product is not selfigniting.

Product does not present an explosion hazard.

0.00 %

0.0 g/l / 0.00 lb/gal

(Contd. on page 5)

us

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** SA- $\beta$ -Gal Substrate

(Contd. of page 4)

- **Change in condition**
- **Evaporation rate** Not determined.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions** No dangerous reactions known.
  - **Conditions to avoid** No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

(Contd. on page 6)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** SA-β-Gal Substrate

(Contd. of page 5)

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects**
  - **Additional ecological information:**
  - **General notes:** Not hazardous for water.

### 13 Disposal considerations

**Waste treatment methods**

- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

**UN-Number**

- DOT, IMDG, IATA not regulated

**UN proper shipping name**

- DOT, IMDG, IATA not regulated

**Transport hazard class(es)**

- DOT, ADN, IMDG, IATA
- Class not regulated

**Packing group**

- DOT, IMDG, IATA not regulated

**Environmental hazards:**

Not applicable.

**Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**

Not applicable.

**Special precautions for user**

Not applicable.

**UN "Model Regulation":**

not regulated

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

(Contd. on page 7)

US

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** SA- $\beta$ -Gal Substrate

(Contd. of page 6)

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

None of the ingredients is listed.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY (RUO), NOT FOR HUMAN OR VETERINARY DIAGNOSTIC USE.

While this SDS is based on technical data deemed reliable, Enzo Biochem does not assume responsibility for product related compliances, completeness or accuracy of the information contained herein. Users shall consider this data only as a supplement to other information gathered to make an independent scientific determination for product related compliance, suitability and completeness to assure proper use, environmental protection, distribution, storage, disposal, health and safety.

· **Department issuing SDS:** MFG, RA, QA.

(Contd. on page 8)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** SA- $\beta$ -Gal Substrate

(Contd. of page 7)

- **Contact:** SDS@Enzo.com
- **Date of previous version** 09/15/2025
- **Date of preparation** 09/15/2025

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

- \* **Data compared to the previous version altered.**

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

### 1 Identification

#### Product identifier

- **Trade name:** Stop Solution

#### Other means of identification

- **Article number:** ENZ-KIT129-4

#### **Application of the substance / the mixture**

Research Use Only (RUO)! Not for human or veterinary use.

This product is considered to be laboratory chemicals intended only as an analytical tool for quantitative/qualitative determination and is not validated nor intended for diagnostic purposes.

#### Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

Enzo Biochem  
10 Executive Blvd.  
FARMINGDALE, NY 11735  
USA

#### Emergency telephone number:

For United States, Canada, Puerto Rico, and the U.S. Virgin Islands, contact: +1 (800) 704-9215

For international, contact: +1 (360) 256-7365

### 2 Hazard(s) identification

#### Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

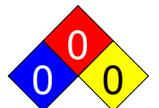
#### Label elements

- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

#### Information pertaining to particular dangers for man and environment:

##### Classification system:

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

##### HMIS-ratings (scale 0 - 4)



Health = 0  
Fire = 0  
Reactivity = 0

#### Other hazards

##### Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

#### Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

(Contd. on page 2)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** Stop Solution

(Contd. of page 1)

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

- Description:** Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:** Void

### 4 First-aid measures

**Description of first aid measures**

- General information:** No special measures required.
- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Generally the product does not irritate the skin.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** If symptoms persist consult doctor.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**

- Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

- Protective equipment:** No special measures required.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Protective Action Criteria for Chemicals**

**PAC-1:**

None of the ingredients is listed.

**PAC-2:**

None of the ingredients is listed.

(Contd. on page 3)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** Stop Solution

(Contd. of page 2)

· **PAC-3:**

None of the ingredients is listed.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **Precautions for safe handling** No special measures required.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

US

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** Stop Solution

(Contd. of page 3)

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

##### · General Information

· <b>Physical state</b>	Liquid
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flammability:</b>	Not applicable.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Particle characteristics</b>	Not applicable.

#### · Other information

##### · **Appearance:**

· <b>Form:</b>	Liquid
----------------	--------

##### · **Important information on protection of health and environment, and on safety.**

· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	0.00 %
· <b>VOC content:</b>	0.0 g/l / 0.00 lb/gal

(Contd. on page 5)

us

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** Stop Solution

(Contd. of page 4)

- **Change in condition**
- **Evaporation rate** Not determined.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions** No dangerous reactions known.
  - **Conditions to avoid** No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

(Contd. on page 6)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** Stop Solution

(Contd. of page 5)

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects**
  - **Additional ecological information:**
  - **General notes:** Not hazardous for water.

### 13 Disposal considerations

**Waste treatment methods**

- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· <b>UN-Number</b>	
· DOT, IMDG, IATA	not regulated
· <b>UN proper shipping name</b>	
· DOT, IMDG, IATA	not regulated
· <b>Transport hazard class(es)</b>	
· DOT, ADN, IMDG, IATA	
· Class	not regulated
· <b>Packing group</b>	
· DOT, IMDG, IATA	not regulated
· <b>Environmental hazards:</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>UN "Model Regulation":</b>	not regulated

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

(Contd. on page 7)

US

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** Stop Solution

(Contd. of page 6)

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

None of the ingredients is listed.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY (RUO), NOT FOR HUMAN OR VETERINARY DIAGNOSTIC USE.

While this SDS is based on technical data deemed reliable, Enzo Biochem does not assume responsibility for product related compliances, completeness or accuracy of the information contained herein. Users shall consider this data only as a supplement to other information gathered to make an independent scientific determination for product related compliance, suitability and completeness to assure proper use, environmental protection, distribution, storage, disposal, health and safety.

· **Department issuing SDS:** MFG, RA, QA.

(Contd. on page 8)

US

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 09/15/2025

Reviewed on 09/15/2025

**Trade name:** Stop Solution

(Contd. of page 7)

- **Contact:** SDS@Enzo.com
- **Date of previous version** 09/15/2025
- **Date of preparation** 09/15/2025

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

- \* **Data compared to the previous version altered.**

US