

halosperm G2 PRO

PRODUCT INFORMATION

DEVICE INFORMATION

Product name: halosperm G2 PRO
REF: HT-HSG2P
Document code: HTHSG2P_MSDS_EN/01
Last revision date: 26/05/2025
Print date: 26/05/2025

COMPONENTS

MSDS kit contains the following:
- Solution 1 (DA) Denaturant Agent
- Solution 2 (LS) Lysis Solution

| | |
|--|---|
| PRODUCT INFORMATION | 1 |
| DEVICE INFORMATION | 1 |
| COMPONENTS | 1 |
| Solution 1 (DA) Denaturant Agent | 5 |
| SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING | 5 |
| 1.1 PRODUCT IDENTIFIER | 5 |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | 5 |
| 1.3 Details of the supplier of the safety data sheet | 5 |
| 1.4 Emergency telephone number | 5 |
| SECTION 2: HAZARDS IDENTIFICATION | 5 |
| 2.1 Classification of the substance or mixture | 5 |
| 2.2 Label elements | 5 |
| 2.3 Other hazards | 6 |
| SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS | 6 |
| 3.1 Substances | 6 |
| 3.2 Mixtures | 6 |
| SECTION 4: First aid measures | 6 |
| 4.1 Description of first aid measures | 6 |
| 4.2 Most important symptoms and effects, both acute and delayed | 7 |
| 4.3 Indication of any immediate medical attention and special treatment needed | 7 |
| SECTION 5: Firefighting measures | 7 |
| 5.1 Extinguishing media | 7 |
| 5.2 Special hazards arising from the substance or mixture | 7 |
| 5.3 Advice for firefighters | 7 |
| SECTION 6: Accidental release measures | 7 |
| 6.1 Personal precautions, protective equipment and emergency procedures | 7 |
| 6.2 Environmental precautions | 7 |
| 6.3 Methods and material for containment and cleaning up | 7 |
| 6.4 Reference to other sections | 7 |
| SECTION 7: Handling and storage | 7 |
| 7.1 Precautions for safe handling | 7 |

| | | |
|--|--|----|
| 7.2 | Conditions for safe storage, including any incompatibilities..... | 8 |
| 7.3 | Specific end use(s)..... | 8 |
| SECTION 8: Exposure controls/personal protection..... | | 8 |
| 8.1 | Control parameters..... | 8 |
| 8.2 | Exposure controls..... | 9 |
| SECTION 9: Physical and chemical properties..... | | 9 |
| 9.1 | INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES..... | 9 |
| 9.2 | Other information..... | 10 |
| SECTION 10: Stability and reactivity..... | | 10 |
| 10.1 | Reactivity..... | 10 |
| 10.2 | Chemical stability..... | 10 |
| 10.3 | Possibility of hazardous reactions..... | 10 |
| 10.4 | Conditions to avoid..... | 10 |
| 10.5 | Incompatible materials..... | 10 |
| 10.6 | Hazardous decomposition products..... | 10 |
| SECTION 11: Toxicological information..... | | 10 |
| 11.1 | Information on hazard classes as defined in Regulation (EC) No 1272/2008..... | 10 |
| 11.2 | Information on other hazards..... | 11 |
| SECTION 12: Ecological information..... | | 11 |
| 12.1 | Toxicity..... | 11 |
| 12.2 | Persistence and degradability..... | 12 |
| 12.3 | Bioaccumulative potential..... | 12 |
| 12.4 | Mobility in soil..... | 12 |
| 12.5 | Results of PBT and vPvB assessment..... | 12 |
| 12.6 | Endocrine disrupting properties..... | 12 |
| 12.7 | Other adverse effects..... | 12 |
| SECTION 13: Disposal considerations..... | | 12 |
| 13.1 | Waste treatment methods..... | 12 |
| SECTION 14: Transport information..... | | 12 |
| 14.1 | un number or id number..... | 12 |
| 14.2 | un proper shipping name..... | 12 |
| 14.3 | transport hazard class(es)..... | 13 |
| 14.4 | packing group..... | 13 |
| 14.5 | environmental hazards..... | 13 |
| 14.6 | Special precautions for user..... | 13 |
| 14.7 | Maritime transport in bulk according to IMO instruments..... | 14 |
| SECTION 15: Regulatory information..... | | 14 |
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture 14 | |
| 15.2 | Chemical safety assessment..... | 15 |
| SECTION 16: Other information..... | | 15 |
| | Solution 2 (LS) Lysis Solution..... | 17 |
| SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING..... | | 17 |
| 1.1 | PRODUCT IDENTIFIER..... | 17 |



| | | |
|--|---|----|
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | 17 |
| 1.3 | Details of the supplier of the safety data sheet | 17 |
| 1.4 | Emergency telephone number..... | 17 |
| SECTION 2: HAZARDS IDENTIFICATION | | 17 |
| 2.1 | Classification of the substance or mixture..... | 17 |
| 2.2 | Label elements | 17 |
| 2.3 | Other hazards | 18 |
| SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS..... | | 18 |
| 3.1 | Substances..... | 18 |
| 3.2 | Mixtures | 18 |
| SECTION 4: First aid measures..... | | 18 |
| 4.1 | Description of first aid measures | 18 |
| 4.2 | Most important symptoms and effects, both acute and delayed | 18 |
| 4.3 | Indication of any immediate medical attention and special treatment needed | 18 |
| SECTION 5: Firefighting measures..... | | 19 |
| 5.1 | Extinguishing media..... | 19 |
| 5.2 | Special hazards arising from the substance or mixture | 19 |
| 5.3 | Advice for firefighters..... | 19 |
| SECTION 6: Accidental release measures | | 19 |
| 6.1 | Personal precautions, protective equipment and emergency procedures | 19 |
| 6.2 | Environmental precautions | 19 |
| 6.3 | Methods and material for containment and cleaning up | 19 |
| 6.4 | Reference to other sections..... | 19 |
| SECTION 7: Handling and storage..... | | 19 |
| 7.1 | Precautions for safe handling | 19 |
| 7.2 | Conditions for safe storage, including any incompatibilities..... | 19 |
| 7.3 | Specific end use(s) | 19 |
| SECTION 8: Exposure controls/personal protection | | 20 |
| 8.1 | Control parameters..... | 20 |
| 8.2 | Exposure controls..... | 20 |
| SECTION 9: Physical and chemical properties..... | | 21 |
| 9.1 | INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES..... | 21 |
| 9.2 | Other information..... | 21 |
| SECTION 10: Stability and reactivity | | 21 |
| 10.1 | Reactivity | 21 |
| 10.2 | Chemical stability..... | 21 |
| 10.3 | Possibility of hazardous reactions..... | 22 |
| 10.4 | Conditions to avoid | 22 |
| 10.5 | Incompatible materials..... | 22 |
| 10.6 | Hazardous decomposition products..... | 22 |
| SECTION 11: Toxicological information..... | | 22 |
| 11.1 | Information on hazard classes as defined in Regulation (EC) No 1272/2008..... | 22 |
| 11.2 | Information on other hazards | 23 |
| SECTION 12: Ecological information | | 23 |



| | | |
|-------------|--|----|
| 12.1 | Toxicity..... | 23 |
| 12.2 | Persistence and degradability..... | 23 |
| 12.3 | Bioaccumulative potential | 23 |
| 12.4 | Mobility in soil | 23 |
| 12.5 | Results of PBT and vPvB assessment..... | 23 |
| 12.6 | Endocrine disrupting properties | 24 |
| 12.7 | Other adverse effects..... | 24 |
| SECTION 13: | Disposal considerations | 24 |
| 13.1 | Waste treatment methods..... | 24 |
| SECTION 14: | Transport information | 24 |
| 14.1 | un number or id number..... | 24 |
| 14.2 | un proper shipping name | 24 |
| 14.3 | transport hazard class(es) | 24 |
| 14.4 | packing group | 24 |
| 14.5 | environmental hazards..... | 24 |
| 14.6 | Special precautions for user | 24 |
| 14.7 | Maritime transport in bulk according to IMO instruments..... | 25 |
| SECTION 15: | Regulatory information | 25 |
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture 25 | |
| 15.2 | Chemical safety assessment | 25 |
| SECTION 16: | Other information | 25 |

SOLUTION 1 (DA) DENATURANT AGENT

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product form : Mixture
Trade name : Solution 1 (DA) Denaturant Agent

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1 RELEVANT IDENTIFIED USES

Main use category : Professional use
Use of the substance/mixture : halosperm G2 PRO component

1.2.2 USES ADVISED AGAINST

No additional information available

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Halotech DNA SL
C/FARADAY 7
1º PLANTA CAMPUS DE CANTOBLANCO
28049 MADRID, SPAIN
T +34 912 79 69 50
altea.gosalbez@halotechdna.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency number : +34 912 79 69 50
From monday to friday (9:00-16:00h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Met. Corr. 1 H290
Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals-

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

| | |
|--------------------------------|--|
| Signal word (CLP) | : Warning |
| Contains | : hydrochloric acid |
| Hazard statements (CLP) | : H290 - May be corrosive to metals. |
| Precautionary statements (CLP) | : P234 - Keep only in original packaging. P390 - Absorb spillage to prevent material damage. P406 - Store in a corrosive resistant container with a resistant inner liner. |

2.3 OTHER HAZARDS

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
 This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
 Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII
 The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not applicable.

3.2 MIXTURES

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|------------|--|
| hydrochloric acid substance with a Community workplace exposure limit | EC-No.: 231-595-7 EC Index-No.: 017-002-01-X REACH-no: 01-2119484862-27 | 0.3 – 0.35 | Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|-------------------|---|---|
| hydrochloric acid | EC-No.: 231-595-7 EC Index-No.: 017-002-01-X REACH-no: 01-2119484862-27 | (10 \leq C < 100) STOT SE 3, H335 (10 \leq C < 25) Eye Irrit. 2, H319 (10 \leq C < 25) Skin Irrit. 2, H315 (25 \leq C < 100) Skin Corr. 1B, H314 |

Full text of H- and EUH-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

| | |
|---------------------------------------|--|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |



4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous decomposition products in: Carbon oxides (CO, CO₂).
case of fire

5.3 ADVICE FOR FIREFIGHTERS

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 FOR NON-EMERGENCY PERSONNAL

Emergency procedures : Ventilate spillage area.

6.1.2 FOR EMERGENCY RESPONDERS

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4 REFERENCE TO OTHER SECTIONS

For further information refer to sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Direct sunlight. Sources of ignition. Metals.

Storage temperature : 2 – 8 °C

7.3 SPECIFIC END USE(S)

See section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 NATIONAL OCCUPATIONAL EXPOSURE AND BIOLOGICAL LIMIT VALUES

| hydrochloric acid | |
|--|---------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Hydrogen chloride |
| IOEL TWA | 8 mg/m ³ |
| | IOEL TWA 5 ppm |
| IOEL STEL | 15 mg/m ³ |
| | IOEL STEL 10 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |

8.1.2 RECOMMENDED MONITORING PROCEDURES

No additional information available

8.1.3 AIR CONTAMINANTS FORMED

No additional information available

8.1.4 DNEL AND PNEC

| hydrochloric acid | |
|---------------------------------------|----------------------|
| DNEL/DMEL (Workers) | |
| Acute - local effects, inhalation | 15 mg/m ³ |
| Long-term - local effects, inhalation | 8 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - local effects, inhalation | 15 mg/m ³ |
| Long-term - local effects, inhalation | 8 mg/m ³ |

8.1.5 CONTROL BANDING

No additional information available

8.2 EXPOSURE CONTROLS

8.2.1 APPROPRIATE ENGINEERING CONTROLS

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2 PERSONAL PROTECTION EQUIPMENT

Personal protective equipment:
Avoid all unnecessary exposure.
Personal protective equipment symbol(s):



8.2.2.1 EYE AND FACE PROTECTION

Eye protection:
Safety glasses

8.2.2.2 SKIN PROTECTION

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Protective gloves

8.2.2.3 RESPIRATORY PROTECTION

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4 THERMAL HAZARDS

No additional information available

8.2.3 ENVIRONMENTAL EXPOSURE CONTROLS

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------|------------------|
| Physical state | : Liquid |
| Colour | : Transparent. |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |



| | | |
|---|---|----------------|
| pH | : | 1.3 |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Not available |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour Pressure 20°C | : | Not available |
| Vapour pressure at 50 °C | : | Not available |
| Density | : | Not available |
| Relative density | : | Not available |
| Vapour density | : | Not available |
| Particle characteristics | : | Not applicable |

9.2 OTHER INFORMATION

9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

No additional information available

9.2.2 OTHER SAFETY CHARACTERISTICS

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

The product is non-reactive under normal conditions of use, storage and transport.

10.2 CHEMICAL STABILITY

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

10.4 CONDITIONS TO AVOID

None under recommended storage and handling conditions (see section 7).

10.5 INCOMPATIBLE MATERIALS

See section 7.2. metals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

| | | |
|-----------------------------|---|--|
| Acute toxicity (oral) | : | Not classified (Based on available data, the classification criteria are not met.) |
| Acute toxicity (dermal) | : | Not classified (Based on available data, the classification criteria are not met.) |
| Acute toxicity (inhalation) | : | Not classified (Based on available data, the classification criteria are not met.) |

| hydrochloric acid | |
|--------------------|-------------------------|
| LD50 oral rat | > 5010 mg/kg bodyweight |
| LD50 dermal rabbit | > 5010 mg/kg |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified pH: 1.3 |
| Serious eye damage/irritation | : Not classified pH: 1.3 |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met.) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met.) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met.) |

| hydrochloric acid | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

| | |
|------------------------|--|
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met.) |

11.2 INFORMATION ON OTHER HAZARDS

11.2.1 ENDOCRINE DISRUPTING PROPERTIES

Adverse health effects caused by endocrine disrupting properties: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 OTHER INFORMATION

No additional information available

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

| | |
|---|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified (Based on available data, the classification criteria are not met.) |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met.) |

12.2 PERSISTENCE AND DEGRADABILITY

| DA G2 PRO 10 ml | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

| hydrochloric acid | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

12.3 BIOACCUMULATIVE POTENTIAL

No additional information available

12.4 MOBILITY IN SOIL

No additional information available

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

| DA G2 PRO 10 ml | |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

12.6 ENDOCRINE DISRUPTING PROPERTIES

Adverse effects on the environment caused by endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7 OTHER ADVERSE EFFECTS

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: TRANSPORT INFORMATION

| ADR | IMDG | IATA | ADN | RID |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 14.1 UN NUMBER OR ID NUMBER | | | | |
| UN 1760 |
| 14.2 UN PROPER SHIPPING NAME | | | | |
| CORROSIVE LIQUID, N.O.S. |
| Transport document description | | | | |
| UN 1760 CORROSIVE LIQUID, N.O.S. |



| | | | | |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| (hydrochloric acid), 8, III, (E) | (hydrochloric acid), 8, III | (hydrochloric acid), 8, III | (hydrochloric acid), 8, III | (hydrochloric acid), 8, III |
| 14.3 TRANSPORT HAZARD CLASS(ES) | | | | |
| 8 | 8 | 8 | 8 | 8 |
| 14.4 PACKING GROUP | | | | |
| III | III | III | III | III |
| 14.5 ENVIRONMENTAL HAZARDS | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

14.6 SPECIAL PRECAUTIONS FOR USER

Overland transport

| | |
|--|---|
| Classification code (ADR) | : C9 |
| Special provisions (ADR) | : 274 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container: instructions (ADR) | : T7 |
| Portable tank and bulk container: special provisions (ADR) | : TP1, TP28 |
| Tank code (ADR) | : L4BN |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage | : V12 |
| Packages (ADR) | |
| Hazard identification number (Kemler: No.) | : 80 |
| Orange plates | :  |
| Tunnel restriction code (ADR) | : E |

Transport by sea

| | |
|------------------------------------|--|
| Special provisions (IMDG) | : 223, 274 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T7 |
| Tank special provisions (IMDG) | : TP1, TP28 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : A |
| Stowage and handling (IMDG) | : SW2 |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes. |

Air transport

| | |
|---|------------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y841 |
| PCA limited quantity max net quantity: (IATA) | : 1L |
| PCA packing instructions (IATA) | : 852 |
| PCA max net quantity (IATA) | : 5L |
| CAO packing instructions (IATA) | : 856 |
| CAO max net quantity (IATA) | : 60L |
| Special provisions (IATA) | : A3, A803 |
| ERG code (IATA) | : 8L |

Inland waterway transport

Classification code (ADN) : C9
Special provisions (ADN) : 274
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C9
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container: T7
instructions (RID)
Portable tank and bulk container: TP1, TP28
special provisions (RID)
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage –: W12
Packages (RID)
Colis express (express parcels) (RID): CE8
Hazard identification number (RID) : 80

14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.1.1 EU-REGULATIONS

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|--------------------------------|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | DA G2 10 ml; hydrochloric acid | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 NATIONAL REGULATIONS

No additional information available.

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:
hydrochloric acid

SECTION 16: OTHER INFORMATION

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

- Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. SDS EU format according to COMMISSION REGULATION (EU) 2020/878.
- Other information : Refer to the safety data sheet before handling or disposing.

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|--------------|------|--------------------|
| Met. Corr. 1 | H290 | Calculation method |
|--------------|------|--------------------|

Safety Data Sheet (SDS), EU

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.

SOLUTION 2 (LS) LYSIS SOLUTION

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product form : Mixture
Trade name : Solution 2 (LS) Lysis Solution

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1 RELEVANT IDENTIFIED USES

Main use category : Professional use
Use of the substance/mixture : halosperm G2 PRO component

1.2.2 USES ADVISED AGAINST

No additional information available

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Halotech DNA SL
C/FARADAY 7
1º PLANTA CAMPUS DE CANTOBLANCO
28049 MADRID, SPAIN
T +34 912 79 69 50
altea.gosalbez@halotechdna.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency number : +34 912 79 69 50
From monday to friday (9:00-16:00h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1 H318
Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye damage.

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Danger
Contains : (R*,R*)-1,4-dimercaptobutane-2,3-diol
Hazard statements (CLP) : H318 - Causes serious eye damage.

Precautionary statements (CLP) : P280 - Wear protective clothing, eye protection, face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a doctor.

2.3 OTHER HAZARDS

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not applicable

3.2 MIXTURES

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|--|
| (R*,R*)-1,4-dimercaptobutane-2,3-diol | CAS-No.: 3483-12-3 EC-No.: 222-468-7 | 3 – 3.5 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 |
| 2-((1-((2-ethylhexyl)poly-oxy)polypropan-2-yl)oxy)ethanol | CAS-No.: 64366-70-7 EC-No.: 613-582-1 | 1 – 1.5 | Eye Irrit. 2, H319 |

Full text of H- and EUH-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

First-aid measures general : If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/effects after eye contact : Serious damage to eyes.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.



SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous decomposition products in case of fire: Toxic fumes may be released. Carbon oxides (CO, CO₂).

5.3 ADVICE FOR FIREFIGHTERS

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 FOR NON-EMERGENCY PERSONNAL

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2 FOR EMERGENCY RESPONDERS

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4 REFERENCE TO OTHER SECTIONS

For further information refer to sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions : Store in a well-ventilated place. Keep cool.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3 SPECIFIC END USE(S)

See section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 NATIONAL OCCUPATIONAL EXPOSURE AND BIOLOGICAL LIMIT VALUES

No additional information available

8.1.2 RECOMMENDED MONITORING PROCEDURES

No additional information available

8.1.3 AIR CONTAMINANTS FORMED

No additional information available

8.1.4 DNEL AND PNEC

No additional information available

8.1.5 CONTROL BANDING

No additional information available

8.2 EXPOSURE CONTROLS

8.2.1 APPROPRIATE ENGINEERING CONTROLS

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2 PERSONAL PROTECTION EQUIPMENT

Personal protective equipment:
Avoid all unnecessary exposure.
Personal protective equipment symbol(s):



8.2.2.1 EYE AND FACE PROTECTION

Eye protection:
Safety glasses

8.2.2.2 SKIN PROTECTION

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Protective gloves

8.2.2.3 RESPIRATORY PROTECTION

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4 THERMAL HAZARDS

No additional information available

8.2.3 ENVIRONMENTAL EXPOSURE CONTROLS

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : 7 |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour Pressure 20°C | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : Not available |
| Relative density | : Not available |
| Vapour density | : Not available |
| Particle characteristics | : Not applicable |

9.2 OTHER INFORMATION

9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

No additional information available

9.2.2 OTHER SAFETY CHARACTERISTICS

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

The product is non-reactive under normal conditions of use, storage and transport.

10.2 CHEMICAL STABILITY

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

10.4 CONDITIONS TO AVOID

None under recommended storage and handling conditions (see section 7).

10.5 INCOMPATIBLE MATERIALS

See section 7.2.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

| | |
|-----------------------------|--|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met.) |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met.) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met.) |

(R*,R*)-1,4-dimercaptobutane-2,3-diol (3483-12-3)

| | |
|---------------|---------------------------|
| LD50 oral rat | 300 – 2000 mg/kg OECD 423 |
|---------------|---------------------------|

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met.) pH: 7 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 7 |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met.) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met.) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met.) |

11.2 INFORMATION ON OTHER HAZARDS

11.2.1 ENDOCRINE DISRUPTING PROPERTIES

Adverse health effects caused by endocrine disrupting properties: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 OTHER INFORMATION

No additional information available

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
 Hazardous to the aquatic environment, short-term (acute): Not classified (Based on available data, the classification criteria are not met.)
 Hazardous to the aquatic environment, long-term (chronic): Not classified (Based on available data, the classification criteria are not met.)

| (R*,R*)-1,4-dimercaptobutane-2,3-diol (3483-12-3) | |
|--|--|
| EC50 - Crustacea [1] | 34.8 mg/l 48h; Daphnia magna, OECD 202 |
| ErC50 algae | 24.3 mg/l 72h; Pseudokirchneriella subcapitata, OECD 201 |
| NOEC chronic crustacea | 25 mg/l 48h; Daphnia magna; OECD 202 |

12.2 PERSISTENCE AND DEGRADABILITY

| Solution 2 (LS) Lysis Solution | |
|---------------------------------------|---------------------------|
| Persistence and degradability | No information available. |

| (R*,R*)-1,4-dimercaptobutane-2,3-diol (3483-12-3) | |
|--|---------------------------|
| Persistence and degradability | No information available. |

| 2-((1-((2-ethylhexyl)poly-oxy)poly-propan-2-yl)oxy)ethanol (64366-70-7) | |
|--|---------------------------|
| Persistence and degradability | No information available. |

12.3 BIOACCUMULATIVE POTENTIAL

No additional information available

12.4 MOBILITY IN SOIL

No additional information available

12.5 RESULTS OF PBT AND VPVB ASSESSMENT



Solution 2 (LS) Lysis Solution

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 ENDOCRINE DISRUPTING PROPERTIES

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7 OTHER ADVERSE EFFECTS

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: TRANSPORT INFORMATION

| ADR | IMDG | IATA | ADN | RID |
|--|---------------|---------------|---------------|---------------|
| 14.1 UN NUMBER OR ID NUMBER | | | | |
| Not regulated for transport | | | | |
| 14.2 UN PROPER SHIPPING NAME | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3 TRANSPORT HAZARD CLASS(ES) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4 PACKING GROUP | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5 ENVIRONMENTAL HAZARDS | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6 SPECIAL PRECAUTIONS FOR USER

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.1.1 EU-REGULATIONS

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|---|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | Solution 2 (LS) Lysis Solution; ; 2-((1-((2-ethylhexyl)polyoxy)poly-propan-2-yl)oxy)ethanol | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 NATIONAL REGULATIONS

No additional information available

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| BLV | Biological limit value |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. SDS EU format according to COMMISSION REGULATION (EU) 2020/878.

Other information : Refer to the safety data sheet before handling or disposing.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|------|--------------------|
| Eye Dam. 1 | H318 | Calculation method |

Safety Data Sheet (SDS), EU

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.