



## Safety Data Sheet #: SDS-80-BILHU-E01, E10

Revision: 1.0      Last Revised: 25Jul25

Product Number	Product Name	Components
80-BILHU-E01	Bile Acids Assay	Microplate: 900-BILMP x 1 Standards A-F: 900-81SA-F x 1 each Controls 1-2: 900-BILQC1-2 x 1 each Enzyme Mix: 900-BILEZ x 1 Substrate Mix: 900-BILSUB x 1
80-BILHU-E10	Bile Acids Assay, 10 x 96 wells	Microplate: 900-BILMP x 10 Standards A-F: 900-81SA-F x 10 each Controls 1-2: 900-BILQC1-2 x 10 each Enzyme Mix: 900-BILEZ x 10 Substrate Mix: 900-BILSUB x 10

Microtiter Plates (900-BILMP) and Substrate Mix (900-BILSUB) do not contain hazardous chemicals at concentrations of 1% or greater and are classified as not dangerous according to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and CLP (EC) No 1272/2008.

Hazard information for Standards (900-81SA-F), Controls (900-BILQC1-2), and Enzyme Mix (900-BILEZ) is following:



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## SECTION 1: Identification

### 1.1 Product Identifier

Product Form: Mixture  
Product Name & Codes: Bile Acids Standards (900-81SA-F)  
Bile Acids Controls (900-BILQC1-2)

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Uses: For in vitro laboratory use. For professional use only.

### 1.2 Details of the Supplier of the Safety Data Sheet

Manufacturer's Name: American Laboratory Products Co. (ALPCO)  
Address: 26-G Keewaydin Drive, Salem, NH, US 03079  
Information Phone Number: 603-893-8914  
Fax Number: 603-898-6854

### 1.3 Emergency Telephone Number

Emergency Phone: 911 in the United States. Local emergency number in other territories.

## SECTION 2: Hazard Identification

### 2.1 Classification of the Substance or Mixture

#### Classification

Acute Toxicity – Category 4

These classifications were evaluated according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and to Regulation (EC) No 1272/2008.

### 2.2 Label Elements

Pictograms:



Signal Word: Warning

Hazardous Statements - Health

H302: Harmful if swallowed

Precautionary Statements - General

P103 - Read label before use.

Precautionary Statements - Prevention

P280 - Wear protective gloves, protective clothing, eye protection/face protection



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## Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

## Precautionary Statements - Storage

No precautionary statement available.

## Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

## 2.3 Other Hazards

No additional information available.

# SECTION 3: Composition / Information on Ingredients

## 3.1 Substances

Not applicable.

## 3.2 Mixtures

CAS No.	EC No.	Chemical Name	% by Weight in Mixture	Classification according to (EC) No 1272/2008 (based on concentration in mixture)	(EC) 1272/2008 Anex I Generic Cut-off Limits	Specific Concentration Limit (SCL)
0009048-46-8	232-936-2	Albumins, Blood Serum	1% to 5%	Acute Toxicity Category 4	≥ 1%	No Data Available

# 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	Remove affected clothing and wash skin with water for > 15 minutes.
First-aid measures after eye contact	Immediately flush with water for > 15 minutes. Remove content lenses if present and easy to do so. Continue rinsing.
First-aid measures after ingestion	If swallowed, rinse mouth thoroughly. Do not induce vomiting without advice from poison center. Get medical attention 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.
Symptoms/effects after inhalation	May cause respiratory irritation
Symptoms/effects after skin contact	May cause skin irritation
Symptoms/effects after eye contact	Direct contact with the eyes is likely to be irritating
Symptoms/effects after ingestion	May cause gastrointestinal irritation

## 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

# SECTION 5: Firefighting measures



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## 5.1 Extinguishing media

Suitable extinguishing media

Dry powder. Foam. Carbon dioxide. Water spray.

Do not use straight stream of water.

## 5.2 Special hazards arising from the substance or mixture

Products of combustion may produce, but are not limited to, oxides of carbon. Runoff may pollute waterways.

## 5.3 Advice for firefighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## SECTION 6: Firefighting measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### 6.2 Environmental precautions

Avoid release to the environment.

### 6.3 Methods and material for containment and clean-up

Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.

### 6.4 Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation of the workstation. Wear personal protective equipment. 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

Seal container tightly and store at 2-8 °C when not in use. Empty containers retain residue and should be handled as potentially hazardous material.

### 7.3 Specific end use(s)

For *in vitro* laboratory use. For professional use only.

## SECTION 8: Handling and storage

### 8.1 Control parameters



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This product, as supplied, does not contain hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

## 8.2 Exposure controls

Hand protection	Protective gloves
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	Not required under normal use
Appropriate engineering controls	Showers, eyewash stations, ventilation systems

## SECTION 9: Physical and chemical properties

### 9.1 Information on physical and chemical properties.

Physical state	Liquid
Color	Amber
Odor	No data available
Odor threshold	No data available
pH	8 – 8.5
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosion limits	No data available

### 9.2 Other information

No additional information available.

## SECTION 10: Physical and chemical properties

### 10.1 Reactivity

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

### 10.2 Chemical Stability

Stable under normal conditions.



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### 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

Strong bases, acids, and oxidizing agents.

### 10.6 Hazardous decomposition products

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

## SECTION 11: Physical and chemical properties

### 11.1 Information on toxicological effects.

Acute toxicity.	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

## SECTION 12: Physical and chemical properties

### 12.1 Toxicity

Based on available data, the classification criteria are not met.

### 12.2 Persistence and Degradation

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



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It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state, and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

## SECTION 14: Transport information

### 14.1 UN number

Not regulated for transport

### 14.2 UN proper shipping name

Proper Shipping Name (U.S. DOT)	Not applicable
Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	Not applicable
Proper Shipping Name (IATA)	Not applicable
Proper Shipping Name (RID)	Not applicable
Proper Shipping Name (Canada TDG)	Not applicable

### 14.3 Transport hazard class(es)

Transport hazard class(es) (U.S. DOT)	Not applicable
Transport hazard class(es) (ADR)	Not applicable
Transport hazard class(es) (IMDG)	Not applicable
Transport hazard class(es) (IATA)	Not applicable
Transport hazard class(es) (RID)	Not applicable
Transport hazard class(es) (Canada TDG)	Not applicable

### 14.4 Packing group

Packing Group (U.S. DOT)	Not applicable
Packing Group (ADR)	Not applicable
Packing Group (IMDG)	Not applicable
Packing Group (IATA)	Not applicable
Packing Group (RID)	Not applicable
Packing Group (Canada TDG)	Not applicable

### 14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

### 14.6 Spacial precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable



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## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substances

Contains no REACH Annex XIV substances

#### 15.1.2 National regulations

No additional information available

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

#### US State Regulation

California Proposition 65 – This product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

## SECTION 16: Other information

Full text of H- and EUH-phrases

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed.

ADR - Agreements Concerning the International Carriage of Dangerous Goods by Road; CAS - Chemical Abstracts Service ; CLP – Classification, Labeling, and Packaging; EC – European Commission; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; OSHA- Occupational Safety and Health Administration, US Department of Labor; REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals; RID - Agreements Concerning the International Carriage of Dangerous Goods by Rail; SCL – Specific Concentration Limit; TDG – Transportation of Dangerous Goods; US DOT- US Department of Transportation; WHMIS – Canadian Workplace Material Information System.

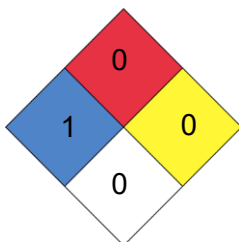
#### HMIS

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Personal Protection

(\* ) - Chronic effects

#### NFPA



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.



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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 be construed as guaranteeing any specific property of the product.

## SECTION 1: Identification

### 1.4 Product Identifier

Product Form: Mixture  
Product Name & Codes: Enzyme Mix (900-BILEZ)

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Uses: For in vitro laboratory use. For professional use only.

### 1.5 Details of the Supplier of the Safety Data Sheet

Manufacturer's Name: American Laboratory Products Co. (ALPCO)  
Address: 26-G Keewaydin Drive, Salem, NH, US 03079  
Information Phone Number: 603-893-8914  
Fax Number: 603-898-6854

### 1.6 Emergency Telephone Number

Emergency Phone: 911 in the United States. Local emergency number in other territories.

## SECTION 2: Hazard Identification

### 2.1 Classification of the Substance or Mixture

#### Classification

Acute Toxicity (Oral) - Category 4  
Skin Irritation - Category 2  
Eye Irritation - Category 1  
Specific Target Organ Toxicity – repeated exposure - Category 1

These classifications were evaluated according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and to Regulation (EC) No 1272/2008.



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## 2.2 Label Elements



Signal Word: Danger!

### Hazardous Statements - Health

H302: Harmful if swallowed

H315: Causes skin irritation

H318: Causes serious eye damage

H373: May cause damage to organs (blood, central nervous system, kidneys, liver) through prolonged or repeated exposure

### Precautionary Statements – General/Prevention

P103 - Read label before use.

P260 - Do not breathe mist, vapors or spray.

P264 - Wash contaminated skin thoroughly after handling.

P270 - Do not eat, drink, or smoke when using this product.

P280 - Wear protective gloves, protective clothing, eye protection/face protection.

### Precautionary Statements - Response

P301 + P310 - IF SWALLOWED: Immediately call a poison center or doctor

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303 + P361 - IF ON SKIN: Wash with plenty of soap and water.

P310 - Immediately call a poison center / doctor

P314 - Get medical advice / attention if you feel unwell.

P330 - Rinse mouth

P332 + P313 - If skin irritation occurs, get medical advice / attention.

### Precautionary Statements - Storage

Not applicable.

### Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

## 2.3 Other Hazards

No additional information available.

# SECTION 3: Composition / Information on Ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

CAS No.	EC No.	Chemical Name	% by Weight in Mixture	Classification according to (EC) No 1272/2008 (based on concentration in mixture)	(EC) 1272/2008 Annex I Generic Cut-off Limits	Specific Concentration Limit (SCL)



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111-42-2	203-868-0	Diethanolamine	1% to 5%	Acute Toxicity (Oral) - Category 4 Skin Irritation - Category 2 Eye Irritation - Category 1 Specific Target Organ Toxicity - Category 1	≥ 1%	No Data Available
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## 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. In the event of breathing difficulties, get medical attention/advice immediately. If not breathing, give artificial respiration.
First-aid measures after skin contact	Remove affected clothing and wash skin with water for at least 15 minutes. Wash contaminated clothing and gloves, including inside, before re-use. Immediate medical attention is required.
First-aid measures after eye contact	Immediately flush with water for > 15 minutes, also under eyelids. Remove contact lenses if present and easy to do so. Immediate medical attention is required.
First-aid measures after ingestion	If swallowed, rinse mouth thoroughly. Do not give anything by mouth if unconscious. Do not induce vomiting without advice from poison center. Get medical attention if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

H315 – Causes skin irritation

H302 – Harmful if swallowed

H318 – Causes serious eye damage

H373 – May cause damage to organs through prolonged or repeated exposure

### 4.3 Indication of any immediate medical attention and special treatment needed

See first aid measures above.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Dry powder. Foam. Carbon dioxide. Water spray.

Unusable extinguishing material

No data available.

### 5.2 Special hazards arising from the substance or mixture

No data.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

## SECTION 6: Firefighting measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Use personal protection equipment. See section 8 for more information.



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## 6.2 Environmental precautions

No special environmental precautions required.

## 6.3 Methods and material for containment and clean-up

Take up liquid spill into absorbent material.

## 6.4 Reference to other sections

For further information refer to section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation of the workstation. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Always wash hands after handling the product. See section 8 for more information.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool, and well-ventilated place. Keep in properly labeled container. Store in accordance with local regulations.

### 7.3 Specific end use(s)

For *in vitro* laboratory use. For professional use only.

## SECTION 8: Handling and storage

### 8.1 Control parameters

This product, as supplied, does not contain hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### 8.2 Exposure controls

Hand protection	Protective gloves
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	Ensure sufficient ventilation or use respirator
Appropriate engineering controls	Showers, eyewash stations, ventilation systems
Environmental exposure controls	No special precautions required

## SECTION 9: Physical and chemical properties

### 9.1 Information on physical and chemical properties.

Physical state	Liquid
Color	Amber
Odor	No data available
Odor threshold	No data available
pH	9.0 – 9.2
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available



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Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosion limits	No data available

## 9.2 Other information

No additional information available.

## SECTION 10: Physical and chemical properties

### 10.1 Reactivity

None known..

### 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

No information available.

### 10.5 Incompatible materials

No dangerous reactions known under normal conditions of use.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products under normal conditions of storage and use.

## SECTION 11: Physical and chemical properties

### 11.1 Information on toxicological effects.

Acute toxicity.	Harmful if swallowed
Skin corrosion/irritation	Skin irritation
Serious eye damage/irritation	Causes serious eye damage
Respiratory or skin sensitization	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Carcinogenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification
Aspiration hazard	Data are conclusive but insufficient for classification

## SECTION 12: Physical and chemical properties



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## 12.1 Toxicity

The environmental impact of this product has not been fully investigated.

## 12.2 Persistence and Degradation

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state, and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

## SECTION 14: Transport information

### 14.1 UN number

Not regulated for transport

### 14.2 UN proper shipping name

Proper Shipping Name (U.S. DOT)	Not applicable
Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	Not applicable
Proper Shipping Name (IATA)	Not applicable
Proper Shipping Name (RID)	Not applicable
Proper Shipping Name (Canada TDG)	Not applicable

### 14.3 Transport hazard class(es)

Transport hazard class(es) (U.S. DOT)	Not applicable
Transport hazard class(es) (ADR)	Not applicable
Transport hazard class(es) (IMDG)	Not applicable
Transport hazard class(es) (IATA)	Not applicable
Transport hazard class(es) (RID)	Not applicable
Transport hazard class(es) (Canada TDG)	Not applicable

### 14.4 Packing group

Packing Group (U.S. DOT)	Not applicable
Packing Group (ADR)	Not applicable



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Packing Group (IMDG) Not applicable  
Packing Group (IATA) Not applicable  
Packing Group (RID) Not applicable  
Packing Group (Canada TDG) Not applicable

## 14.5 Environmental hazards

Dangerous for the environment No  
Marine pollutant No  
Other information No supplementary information available

## 14.6 Spacial precautions for user

### Overland transport

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

This product contains diethanolamine at 1-5%, which is below the Reach listing of 80-90%.

#### 15.1.2 National regulations

No additional information available

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

#### US State Regulation

This product contains the following California Proposition 65 chemicals:

Chemical Name	CAS No.	Weight %	Category
diethanolamine	111-42-2	1-5	Carcinogen

## SECTION 16: Other information

Abbreviations and Acronyms



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ADR - Agreements Concerning the International Carriage of Dangerous Goods by Road; CAS - Chemical Abstracts Service ; CLP – Classification, Labeling, and Packaging; EC – European Commission; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; OSHA- Occupational Safety and Health Administration, US Department of Labor; REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals; RID - Agreements Concerning the International Carriage of Dangerous Goods by Rail; SCL – Specific Concentration Limit; TDG – Transportation of Dangerous Goods; US DOT- US Department of Transportation; WHMIS – Canadian Workplace Material Information System.

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 be construed as guaranteeing any specific property of the product.