

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Lipoprotein(a) R1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: Lipoprotein(a) R1

Product code: L7597-R1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For the quantitative determination of Lipoprotein(a) in human serum and plasma samples.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

United States

HORIBA Instruments Incorporated

5449 Research Drive

Canton, MI 48188

734-487-8300

horiba.com

1.4 Emergency telephone number:

United States

HORIBA Instruments Incorporated

1-800-445-9853 (24 hours per day)

France

Organisme de conseil/centre antipoison national

+33 1 45 42 59 59 (24 hours per day)

Portugal

Órgão consultor nacional/Centro Antivenenos

+351 800 250 250 (24 hours per day)

Spain

Centro de información toxicológica/organismo asesor nacional

+34 91 562 04 20 (24 hours per day)

Czech Republic

Národní poradní orgán/toxikologické středisko

+420 224 919 293 (24 hours per day)

Greece

Εθνικό συμβουλευτικό όργανο/Κέντρο Δηλητηριάσεων

+30 210 779 3777 (24 hours per day)

Italy

Organismo ufficiale di consultazione nazionale/Centro antiveleni

+39 06 305 4343 (24 hours per day)

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Romania

Organism consultativ național/Centru pentru otrăviri
+40 21 3183606 (24 hours per day)

Poland

Krajowa instytucja doradcza/Ośrodek zatruc
+48 22 619 66 54 (24 hours per day)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP): The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

Hazard-determining components of labeling:

2-amino-2-(hydroxymethyl)propane-1,3-diol

Additional Information: None

2.2 Label elements

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

Hazard pictograms: None

Signal Word: None

Hazard statements: None

Precautionary statements: None

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	EU REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 77-86-1 EC number: 201-064-4	-	2-amino-2-(hydroxymethyl)propane-1,3-diol	Skin Irrit. 2; H315 STOT SE 3 (RI); H335 Eye Irrit. 2; H319	<1.21

Additional information: None

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

Following inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

Following skin contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

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Following eye contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Self-Protection of the first aider:

Not determined or not available.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects: Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition may produce irritating/toxic fumes/gases.

5.3 Advice for firefighters

Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up:

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Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

6.4 Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Normal precautions for handling chemicals and potentially infectious materials must be observed.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10). Store between 2-8 °C, in a well-ventilated area.

7.3 Specific end use(s):

Refer to Section 1 (Recommended Use).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Denmark	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3 mg/m ³ (Dust and mist, organic, total dust)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	STEL: 6 mg/m ³ (Dust and mist, organic, total dust)
Finland	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 5 mg/m ³ (Dust and mist, organic, total dust)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	15-Minute STEL: 10 mg/m ³ (Dust and mist, organic, total dust)
Germany (TRGS 900)	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable, insoluble particulates)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	STEL: 20 mg/m ³ (Dust, inhalable, insoluble particulates)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 1.25 mg/m ³ (Dust, respirable, insoluble particulates)
Austria	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	STEL: 20 mg/m ³ (Dust, inhalable)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 5 mg/m ³ (Dust, respirable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	15-Minute STEL: 10 mg/m ³ (Dust, respirable)
Belgium	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3 mg/m ³ (Dust, respirable)
France	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 7 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3.5 mg/m ³ (Dust, respirable)
Hungary	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 6 mg/m ³ (Dust, respirable)
Ireland	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 4 mg/m ³ (Dust, respirable)
Poland	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
Spain	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3 mg/m ³ (Dust, respirable)
Sweden	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 5 mg/m ³ (Dust, respirable)
Germany (MAK)	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 4 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 0.3 mg/m ³ (Dust, respirable, granular, bio-resistant)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	15-Minute STEL: 2.4 mg/m ³ (Dust, respirable, granular, bio-resistant)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

Ingredient Name: 2-amino-2-(hydroxymethyl)propane-1,3-diol

CAS #: 77-86-1

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	117.5
	Chronic - Dermal	166.7 mg/kg bw/day

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Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
General Population - Systemic Effects	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	8.3 mg/kg bw/day
	Chronic - Inhalation	29 mg/m ³
	Chronic - Dermal	83.3 mg/kg bw/day
General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified

Predicted No Effect Concentration (PNEC):

Ingredient Name: 2-amino-2-(hydroxymethyl)propane-1,3-diol

CAS #: 77-86-1

Environmental Protection Target	PNEC
Fresh water	No hazard identified
Freshwater sediments	No hazard identified
Marine water	No hazard identified
Marine sediments	No hazard identified
Microorganisms in sewage treatment	300 mg/L
Soil (agricultural)	No hazard identified
Air	No hazard identified
Oral (Secondary Poisoning)	No exposure expected

Information on monitoring procedures:

Not determined or not applicable.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should

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be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Not determined or not applicable.
Instruction measures to prevent exposure:	Not determined or not applicable.
Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

Risk management measures to control exposure:

Not determined or not applicable.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Color	No data available
Odor/Odor threshold	No data available
pH	No data available
Melting point/freezing point	Not Applicable
Initial boiling point/range	No data available
Flash point (closed cup)	No data available
Flammability	No data available
Upper flammability/explosive limit	No data available
Lower flammability/explosive limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Density	No data available
Relative density	No data available
Solubilities	No data available
Partition coefficient (n-octanol/water)	No data available
Auto/Self-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available

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9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosives	No data available/Not applicable
Flammable gases	No data available/Not applicable
Aerosols	No data available/Not applicable
Oxidizing gases	No data available/Not applicable
Gases under pressure	No data available/Not applicable
Flammable liquids	No data available/Not applicable
Flammable solids	No data available/Not applicable
Self-reactive substances and mixtures	No data available/Not applicable
Pyrophoric liquids	No data available/Not applicable
Pyrophoric solids	No data available/Not applicable
Self-heating substances and mixtures	No data available/Not applicable
Substances and mixtures, which emit flammable gases in contact with water	No data available/Not applicable
Oxidizing liquids	No data available/Not applicable
Oxidizing solids	No data available/Not applicable
Organic peroxides	No data available/Not applicable
Corrosive to metals	No data available/Not applicable
Desensitized explosives	No data available/Not applicable

9.2.2 Other safety characteristics

None.

SECTION 10: Stability and reactivity

10.1 Reactivity:

Not reactive under recommended handling and storage conditions.

10.2 Chemical stability:

Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

10.4 Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

10.5 Incompatible materials:

None known.

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

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

Product data: No data available.

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Substance data:

Name	Route	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >5000 mg/kg

Skin corrosion/irritation

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

Product data:

No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Causes skin irritation.

Serious eye damage/irritation

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

Product data:

No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Causes serious eye irritation.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
2-amino-2-(hydroxymethyl)propane-1,3-diol	Not Applicable

Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

Reproductive Toxicity

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

Product data:

No data available.

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Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

11.2 Information on other hazards

Endocrine disrupting properties:

Substance data: No data available.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Aquatic Invertebrates EC50 Daphnia magna: >980 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 397 mg/L (72 hr [cell number])
	Fish LC50 Freshwater fish: >4000 mg/L (96 hr)

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data: No data available.

12.2 Persistence and degradability

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Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Readily biodegradable in water (65.9% biodegradation in 28 days, measured by CO ₂ evolution).

12.3 Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	No significant bioaccumulation expected. Log Kow (aquatic species): -2.31

12.4 Mobility in soil

Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Mobile in soil with a low potential for adsorption to soil and sediment. Koc at 20 °C: 75

12.5 Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

2-amino-2-(hydroxymethyl)propane-1,3-diol	This substance is not PBT.
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vPvB assessment:

2-amino-2-(hydroxymethyl)propane-1,3-diol	This substance is not vPvB.
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12.6 Endocrine disrupting properties

Substance data: No data available.

12.7 Other adverse effects: No data available.

12.8 Hazard to the ozone layer

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

Product data: No data available.

Substance data: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste codes / waste designations according to LoW: Not determined or not available.

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13.1.2 Waste treatment-relevant information: Not determined or not available.

13.1.3 Sewage disposal-relevant information: Not determined or not available.

13.1.4 Other disposal recommendations: It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Maritime Transport in Bulk according to IMO Instruments

Bulk Name	None
Ship type	None
Pollution category	None
IMO hazard class	None

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Lipoprotein(a) R1

Environmental hazards	None
Material hazardous only in bulk	None
Cargo Group	None

SECTION 15: Regulatory information

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

European regulations

Inventory listing (EINECS): All ingredients are listed or exempt.

REACH SVHC candidate list: None of the ingredients are listed.

REACH SVHC Authorizations: None of the ingredients are listed.

REACH Restriction: None of the ingredients are listed.

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	Water hazard class 1: slightly hazardous to water

Other regulations

Germany TA Luft: None of the ingredients are listed.

Additional information: Not determined.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Abbreviations and Acronyms: None

Summary of classification(s) in section 3:

Skin Irrit. 2	Skin irritation, category 2
STOT SE 3 (RI)	Specific target organ toxicity - single exposure, category 3, respiratory tract irritation
Eye Irrit. 2	Eye Irritation, category 2

Summary of hazard statements in section 3:

H315	Causes skin irritation
H335	May cause respiratory irritation
H319	Causes serious eye irritation

Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and EC No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation, and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet

Safety Data Sheet

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Lipoprotein(a) R2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: Lipoprotein(a) R2

Product code: L7597-R2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For the quantitative determination of Lipoprotein(a) in human serum and plasma samples.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

United States

HORIBA Instruments Incorporated

5449 Research Drive

Canton, MI 48188

734-487-8300

horiba.com

1.4 Emergency telephone number:

United States

HORIBA Instruments Incorporated

1-800-445-9853 (24 hours per day)

France

Organisme de conseil/centre antipoison national

+33 1 45 42 59 59 (24 hours per day)

Portugal

Órgão consultor nacional/Centro Antivenenos

+351 800 250 250 (24 hours per day)

Spain

Centro de información toxicológica/organismo asesor nacional

+34 91 562 04 20 (24 hours per day)

Czech Republic

Národní poradní orgán/toxikologické středisko

+420 224 919 293 (24 hours per day)

Greece

Εθνικό συμβουλευτικό όργανο/Κέντρο Δηλητηριάσεων

+30 210 779 3777 (24 hours per day)

Italy

Organismo ufficiale di consultazione nazionale/Centro antiveleni

+39 06 305 4343 (24 hours per day)

Safety Data Sheet

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Romania

Organism consultativ național/Centru pentru otrăviri
+40 21 3183606 (24 hours per day)

Poland

Krajowa instytucja doradcza/Ośrodek zatruc
+48 22 619 66 54 (24 hours per day)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP): The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

Hazard-determining components of labeling:

2-amino-2-(hydroxymethyl)propane-1,3-diol

Additional Information: None

2.2 Label elements

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

Hazard pictograms: None

Signal Word: None

Hazard statements: None

Precautionary statements: None

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	EU REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 77-86-1 EC number: 201-064-4	-	2-amino-2-(hydroxymethyl)propane-1,3-diol	Skin Irrit. 2; H315 STOT SE 3 (RI); H335 Eye Irrit. 2; H319	<1.21

Additional information: None

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

Following inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

Following skin contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

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Following eye contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Self-Protection of the first aider:

Not determined or not available.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects: Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition may produce irritating/toxic fumes/gases.

5.3 Advice for firefighters

Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up:

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According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

6.4 Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Normal precautions for handling chemicals and potentially infectious materials must be observed.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10). Store between 2-8 °C, in a well-ventilated area.

7.3 Specific end use(s):

Refer to Section 1 (Recommended Use).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Denmark	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3 mg/m ³ (Dust and mist, organic, total dust)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	STEL: 6 mg/m ³ (Dust and mist, organic, total dust)
Finland	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 5 mg/m ³ (Dust and mist, organic, total dust)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	15-Minute STEL: 10 mg/m ³ (Dust and mist, organic, total dust)
Germany (TRGS 900)	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable, insoluble particulates)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	STEL: 20 mg/m ³ (Dust, inhalable, insoluble particulates)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 1.25 mg/m ³ (Dust, respirable, insoluble particulates)
Austria	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	STEL: 20 mg/m ³ (Dust, inhalable)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 5 mg/m ³ (Dust, respirable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	15-Minute STEL: 10 mg/m ³ (Dust, respirable)
Belgium	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3 mg/m ³ (Dust, respirable)
France	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 7 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3.5 mg/m ³ (Dust, respirable)
Hungary	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 6 mg/m ³ (Dust, respirable)
Ireland	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 4 mg/m ³ (Dust, respirable)
Poland	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
Spain	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 3 mg/m ³ (Dust, respirable)
Sweden	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 10 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 5 mg/m ³ (Dust, respirable)
Germany (MAK)	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 4 mg/m ³ (Dust, inhalable)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	8-Hour TWA: 0.3 mg/m ³ (Dust, respirable, granular, bio-resistant)
	2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	15-Minute STEL: 2.4 mg/m ³ (Dust, respirable, granular, bio-resistant)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

Ingredient Name: 2-amino-2-(hydroxymethyl)propane-1,3-diol

CAS #: 77-86-1

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	117.5
	Chronic - Dermal	166.7 mg/kg bw/day

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Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
General Population - Systemic Effects	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	8.3 mg/kg bw/day
	Chronic - Inhalation	29 mg/m ³
	Chronic - Dermal	83.3 mg/kg bw/day
General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified

Predicted No Effect Concentration (PNEC):

Ingredient Name: 2-amino-2-(hydroxymethyl)propane-1,3-diol

CAS #: 77-86-1

Environmental Protection Target	PNEC
Fresh water	No hazard identified
Freshwater sediments	No hazard identified
Marine water	No hazard identified
Marine sediments	No hazard identified
Microorganisms in sewage treatment	300 mg/L
Soil (agricultural)	No hazard identified
Air	No hazard identified
Oral (Secondary Poisoning)	No exposure expected

Information on monitoring procedures:

Not determined or not applicable.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should

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be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Not determined or not applicable.
Instruction measures to prevent exposure:	Not determined or not applicable.
Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

Risk management measures to control exposure:

Not determined or not applicable.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Color	Not Available
Odor/Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	Not Applicable
Initial boiling point/range	Not Available
Flash point (closed cup)	Not Available
Flammability	Not Available
Upper flammability/explosive limit	Not Available
Lower flammability/explosive limit	Not Available
Vapor pressure	Not Available
Relative vapor density	Not determined or not available.
Density	Not Available
Relative density	Not Available
Solubilities	Not Available
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Particle characteristics	Not Available

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9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosives	No data available/Not applicable
Flammable gases	No data available/Not applicable
Aerosols	No data available/Not applicable
Oxidizing gases	No data available/Not applicable
Gases under pressure	No data available/Not applicable
Flammable liquids	No data available/Not applicable
Flammable solids	No data available/Not applicable
Self-reactive substances and mixtures	No data available/Not applicable
Pyrophoric liquids	No data available/Not applicable
Pyrophoric solids	No data available/Not applicable
Self-heating substances and mixtures	No data available/Not applicable
Substances and mixtures, which emit flammable gases in contact with water	No data available/Not applicable
Oxidizing liquids	No data available/Not applicable
Oxidizing solids	No data available/Not applicable
Organic peroxides	No data available/Not applicable
Corrosive to metals	No data available/Not applicable
Desensitized explosives	No data available/Not applicable

9.2.2 Other safety characteristics

None.

SECTION 10: Stability and reactivity

10.1 Reactivity:

Not reactive under recommended handling and storage conditions.

10.2 Chemical stability:

Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

10.4 Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

10.5 Incompatible materials:

None known.

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

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

Product data: No data available.

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Substance data:

Name	Route	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >5000 mg/kg

Skin corrosion/irritation

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

Product data:

No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Causes skin irritation.

Serious eye damage/irritation

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

Product data:

No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Causes serious eye irritation.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
2-amino-2-(hydroxymethyl)propane-1,3-diol	Not Applicable

Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

Reproductive Toxicity

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

Product data:

No data available.

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

11.2 Information on other hazards

Endocrine disrupting properties:

Substance data: No data available.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Aquatic Invertebrates EC50 Daphnia magna: >980 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 397 mg/L (72 hr [cell number])
	Fish LC50 Freshwater fish: >4000 mg/L (96 hr)

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data: No data available.

12.2 Persistence and degradability

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Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Readily biodegradable in water (65.9% biodegradation in 28 days, measured by CO ₂ evolution).

12.3 Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	No significant bioaccumulation expected. Log Kow (aquatic species): -2.31

12.4 Mobility in soil

Product data: No data available.

Substance data:

Name	Result
2-amino-2-(hydroxymethyl)propane-1,3-diol	Mobile in soil with a low potential for adsorption to soil and sediment. Koc at 20 °C: 75

12.5 Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

2-amino-2-(hydroxymethyl)propane-1,3-diol	This substance is not PBT.
---	----------------------------

vPvB assessment:

2-amino-2-(hydroxymethyl)propane-1,3-diol	This substance is not vPvB.
---	-----------------------------

12.6 Endocrine disrupting properties

Substance data: No data available.

12.7 Other adverse effects: No data available.

12.8 Hazard to the ozone layer

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

Product data: No data available.

Substance data: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste codes / waste designations according to LoW: Not determined or not available.

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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13.1.2 Waste treatment-relevant information: Not determined or not available.

13.1.3 Sewage disposal-relevant information: Not determined or not available.

13.1.4 Other disposal recommendations: It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Maritime Transport in Bulk according to IMO Instruments

Bulk Name	None
Ship type	None
Pollution category	None
IMO hazard class	None

Safety Data Sheet

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Environmental hazards	None
Material hazardous only in bulk	None
Cargo Group	None

SECTION 15: Regulatory information

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

European regulations

Inventory listing (EINECS): All ingredients are listed or exempt.

REACH SVHC candidate list: None of the ingredients are listed.

REACH SVHC Authorizations: None of the ingredients are listed.

REACH Restriction: None of the ingredients are listed.

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
2-amino-2-(hydroxymethyl)propane-1,3-diol	77-86-1	Water hazard class 1: slightly hazardous to water

Other regulations

Germany TA Luft: None of the ingredients are listed.

Additional information: Not determined.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Abbreviations and Acronyms: None

Summary of classification(s) in section 3:

Skin Irrit. 2	Skin irritation, category 2
STOT SE 3 (RI)	Specific target organ toxicity - single exposure, category 3, respiratory tract irritation
Eye Irrit. 2	Eye Irritation, category 2

Summary of hazard statements in section 3:

H315	Causes skin irritation
H335	May cause respiratory irritation
H319	Causes serious eye irritation

Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and EC No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation, and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 2023-11-13

End of Safety Data Sheet