Printing date 02/06/2023

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Reviewed on 02/06/2023

Identification	
Product identifier	
Trade name: 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)-1,3-propan	ediol CEDI
Article number: 15107	- JERVA
CAS Number:	serving scientist
6976-37-0	
EC number:	
230-237-7	
Application of the substance / the mixture: Laboratory chemicals	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
SERVA Electrophoresis GmbH	\bigcirc
Carl-Benz-Str. 7	Ry
D-69115 Heidelberg	2
Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10	
msds.info@serva.de	
	25
Information department: Product Safety department Tel.: +49 6221 13840-	55
<i>Emergency telephone number:</i> <i>Medical Emergency Information in case of poisoning:</i>	
Poison Information Center Mainz - Phone: +49 (0) 6131 19240	
(advisory service in German or English language)	
,	
Hazard(s) identification	
Hazard(s) identification Classification of the substance or mixture	
Classification of the substance or mixture	
Classification of the substance or mixture GHS07	
Classification of the substance or mixture GHS07 Eye Irritation 2A H319 Causes serious eye irritation.	
Classification of the substance or mixture GHS07 Eye Irritation 2A H319 Causes serious eye irritation. Label elements	
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· HMIS-ratings (scale 0 - 4)



• Other hazards

· Results of PBT and vPvB assessment:

· **PBT:** PBT - assessment not available.

· **vPvB**: vPvB - assessment not available.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:
- 6976-37-0 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)-1,3-propanediol
- Identification number(s):
- EC number: 230-237-7
- · Description:
- · Empirical formula: C₈H₁₉NO₅
- · MW: 209.2

4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- · After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.

· After swallowing:

Wash out mouth instantly. Drink copious amounts of water and provide fresh air. Call for doctor immediately.

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents:
- CO_2 extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- In case of fire, the following can be released:
- Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective clothing. Avoid formation of dust.

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Ensure adequate ventilation

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up
- Dispose contaminated material as waste according to item 13. Pick up mechanically.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling: No special precautions are necessary if used correctly.

- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.
- Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Additional information about design of technical systems: No further data; see item 7.
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing.
- Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

• Breathing equipment:

Short term filter device: Filter P2

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

• **Penetration time of glove material:** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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For the normanent contact of a maximum	(Contd. of page of 15 minutes gloves made of the following materials a
suitable:	of 15 minutes gloves made of the following materials a
Natural rubber. NR	
Nitrile rubber, NBR	
Eye protection: Safety glasses	
Body protection: Protective work clothing	
Physical and chemical properties	
Information on basic physical and chemical	properties
General Information:	
Color:	White
Odor:	Odorless
Odor threshold:	Not determined.
Melting point/Melting range:	103-104 °C (217.4-219.2 °F)
Boiling point/Boiling range:	no information available
Flammability (solid, gaseous):	no information available
Explosion limits:	
Lower:	no information available
Upper:	no information available
Flash point:	no information available
Decomposition temperature:	no information available
pH-value:	9.4-10.4
Viscosity:	
Kinematic viscosity:	no information available
Dynamic viscosity:	no information available
Solubility in / Miscibility with:	200 /
Water at 20 °C (68 °F):	200 g/l
Partition coefficient (n-octanol/water):	no information available
Vapor pressure:	no information available
Density:	no information available
Relative density:	no information available
Other information	
Appearance:	
Form:	Crystalline powder
Important information on protection of healt	h and
environment, and on safety:	
Danger of explosion:	Product is not explosive. However, formation
	explosive dust-/air mixtures are possible.
Molecular weight	209.2 g/mol

10 Stability and reactivity

- · Reactivity: No further relevant informations available
- · Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No further relevant informations available.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: Avoid contact with strong oxidizers.
- Hazardous decomposition products: In case of fire: See Section 5

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11 Toxicological information

- · Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- on the eye: Causes serious eye irritation.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Results of PBT and vPvB assessment:
- · *PBT*: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects:
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
· Packing group		
· DOT, ADR, ÎMDG, IATA	Void	

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	(Contd. of page 5)
· Environmental hazards · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN ''Model Regulation'':	Void

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements

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

- · Hazard pictograms GHS07
- · Signal word Warning
- · Hazard statements
- Causes serious eye irritation.
- · Precautionary statements
- Wash thoroughly after handling.

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

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

If eye irritation persists: Get medical advice/attention.

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: +49 6221 13840-35
- · Date of preparation / last revision 02/06/2023
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- ICAO: International Civil Aviation Organisation
- PBT: persistent, bioaccumulative, toxic substance (REACH) vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

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Trade name: 2-[Bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)-1,3-propanediol

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bw: body weight
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A