revvity

Safety Data Sheet acc. to OSHA HCS

Printing date 02/20/2024

Reviewed on 05/18/2023

1 Identification

- · Product identifier
- · Trade name: Human E-Cadherin
- **Product number:** TRF1370S
- · Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Revvity, Inc 549 Albany Street Boston, MA 02118
- *Information department:* US Technical Support 800-762-4000
- Emergency telephone number:
- If inside USA, call CHEMTREC at 1-800-424-9300 If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Toxicity - Inhalation 3H331 Toxic if inhaled.Skin Corrosion 1CH314 Causes severe skin burns and eye damage.Eye Damage 1H318 Causes serious eye damage.Sensitization - Skin 1H317 May cause an allergic skin reaction.Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1H410 Very toxic to aquatic life with long lasting effects.Additional information: For the wording of the listed H phrases refer to section 16.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

- Hazard-determining components of labeling: Proclin-300
- Hazard statements
- Toxic if inhaled.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- Very toxic to aquatic life with long lasting effects.
- · Precautionary statements
- Do not breathe dusts or mists.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
- *Continue rinsing.*
- Immediately call a poison center/doctor.
- Specific treatment (see on this label).

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[—]US

2.5-10%

<1%

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· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3Fire = 0Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

1185-53-1 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride

55965-84-9 Proclin-300

4 First-aid measures

· Description of first aid measures

- General information:
- Immediately remove any clothing soiled by the product.
- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- · After inhalation:

Supply fresh air or oxygen; call for doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- *After swallowing:* If symptoms persist consult doctor.

· Information for doctor:

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

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture

- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions: Do not allow product to reach sewage system or any water course.

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Inform respective authorities in case of seepage into water course or sewage system.	
Do not allow to enter sewers/ surface or ground water.	
Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation. • 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
1185-53-1 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride	12 mg/m ³
• PAC-2:	
1185-53-1 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride	130 mg/m ³
· PAC-3:	
1185-53-1 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride	790 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and containers: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 6.1 D
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

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

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.

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Avoid contract with the mos	(Contd. of page 3)
Avoid contact with the eyes. Avoid contact with the eyes and skin.	
Respiratory protection:	
In case of brief or low exposure use an approved cartridge filter. In case of intensive of a contract of the second secon	or longer exposure use
SCBA. Suitable respiratory protective device recommended.	
· Protection of hands:	
Protective gloves	
Troleente glores	
The glove material has to be importantly and resistant to the product/ the substance/ the	monanation
The glove material has to be impermeable and resistant to the product/ the substance/ the p Selection of the glove material on consideration of the penetration times, rates of diffusion	
· Material of gloves	
The selection of the suitable gloves does not only depend on the material, but also on furth	
varies from manufacturer to manufacturer. As the product is a preparation of several sul of the glove material can not be calculated in advance and has therefore to be checked prio	
• Penetration time of glove material	n io ine application.
The exact break through time has to be found out by the manufacturer of the protectiv	e gloves and has to be
observed.	
· Eye protection:	
Tightly sealed goggles	
9 Physical and chemical properties	
Information on basic physical and chemical properties	
• General Information • Appearance:	
Form: Fluid	
Color: According to product specification	
Odor: Characteristic	
• Odor threshold: Not determined.	
· pH-value: N/A	
· Change in condition	
Melting point/Melting range: Undetermined.	
Melting point/Melting range:Undetermined.Boiling point/Boiling range:1,461 °C (34.661 °F)	
Melting point/Melting range:Undetermined.Boiling point/Boiling range:1,461 °C (34.661 °F)Flash point:Not applicable.	
Melting point/Melting range:Undetermined.Boiling point/Boiling range:1,461 °C (34.661 °F)Flash point:Not applicable.Flammability (solid, gaseous):Not applicable.	
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Melting point/Melting range: Boiling point/Boiling range:Undetermined. 1,461 °C (34.661 °F)· Flash point:Not applicable.· Flammability (solid, gaseous):Not applicable.· Decomposition temperature:Not determined.· Ignition temperature:Product is not selfigniting.	
Melting point/Melting range:Undetermined.Boiling point/Boiling range:1,461 °C (34.661 °F)· Flash point:Not applicable.· Flammability (solid, gaseous):Not applicable.· Decomposition temperature:Not determined.· Ignition temperature:Product is not selfigniting.· Danger of explosion:Product does not present an explosion hazard.	

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		(Contd. of page 4
· Vapor pressure:	Not determined.	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC content:	0.00 %	
Solids content:	19.6 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

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

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- *Aquatic toxicity:* No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Ecotoxical effects: N/A
- · Remark: Very toxic for fish
- Other information: N/A
- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· ADR, IMDG, IATA	UN1760
\cdot UN proper shipping name	
ADR	1760 CORROSIVE LIQUID, N.O.S. (Proclin-300
	ENVIRONMENTALLY HAZARDOUS
· IMDG, IATA	CORROSIVE LIQUID, N.O.S. (Proclin-300)
· Transport hazard class(es)	
ADR	
· Class	8 Corrosive substances

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Label	8
IMDG, IATA	
\wedge	
Le la	
3	
Class	8 Corrosive substances
Label	8
Packing group	
ADR, IMDG, IATA	111
Environmental hazards:	
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number: Stowage Category	F-A,S-B A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 ml Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (PROCLIN-300), 8, II
	ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

9004-54-0 Dextran

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	(Contd. of page
9048-46-8 Bovine Serum Albumin	ACTIVI
7647-14-5 sodium chloride	ACTIVE
1185-53-1 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

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

16 Other information

The information provided in this safety data sheet is based on our current knowledge, and is believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be regarded as a warranty or specification of quality. All materials may present unknown hazards and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Revvity, Inc. cannot be held liable for any damage resulting from handling or contact with the product.

· Contact:

- · Date of preparation / last revision 02/20/2024
- · Abbreviations and acronyms:

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

- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)

- 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

VOC: Volatile Organic Compounds (USA, EU)

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Acute Toxicity - Inhalation 3: Acute toxicity – Category 3 Skin Corrosion 1C: Skin corrosion/irritation – Category 1C Eye Damage 1: Serious eye damage/eye irritation – Category 1 Sensitization - Skin 1: Skin sensitisation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1