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Safety Data Sheet

Cerbero Sealer (Part A)

Revision:

31 October 2024
Supersedes version: 10 November 2020

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

1.1. Product Identifier

Cerbero Sealer (Part A)

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

Two-component water-based sealer for cementitious overlays.

1.3. Detail of the supplier of the safety data sheet

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National Distributor
Ecobeton Italy Srl

Information about the Safety Data Sheet:

tecnica@ecobeton.it

1.4. Emergency telephone number

Italy - Italia | Verona Integrated Hospital Company: 800 011 858
Full list at: preparatipericolosi.iss.it

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):
Not a hazardous substance or mixture.
The product contains dangerous substances in a concentration such as to be declared in section 3

2.2. Label elements

No labeling according to GHS required.
DIRECTIVE 2004/42/EC on the limitation of emissions of volatile organic compounds

Product Subcategory	Product VOC Content	Maximum VOC Content Limit
Two-pack reactive performance coatings for specific end use such as floors	110.73* g/L	140 g/L

*Mixed with 20% Cerbero Sealer Part B

EUH 208	Contains: • 2,4,7,9-tetramethyldec-5-yne-4,7-diol • 1,2-benzisothiazol-3(2H)-one • Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one May produce an allergic reaction.
EUH 210	Safety data sheet available on request.

2.3. Other Hazards

PBT: This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
vPvB: This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
The product is not listed or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100
Other Hazards: none

SECTION 3: Composition/information on ingredients

Chemical identity:

Two-component polyurethane resin

3.2. Mixtures

CAS / EC-No.	Component	Concentration	Classification: REGULATION (EC) No 1272/2008	Notes
CAS no: 112-34-5 **EC no:** 203-961-6 **Reach no:** 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	3 - 6 %	Substance with a community workplace exposure limit. Eye Irrit. 2 - H319	
CAS no: 34590-94-8 **EC no:** 252-104-2 **Reach no:** 01-2119450011-XXXX	(2-methoxymethylethoxy)propanol **IUPAC:** Dipropylene glycol, monomethyl ether	2,5 - 3 %	Substance with a community workplace exposure limit.	
CAS no: 126-86-3 **EC no:** 204-809-1 **Reach no:**	2,4,7,9-tetramethyldec-5-yne-4,7-diol	0 - 0.5 %	Eye Dam. 1 - H318 Aquatic Chronic 3 - H412 Skin Sens.1B - H317	
CAS no: 2634-33-5 **EC no:** 220-120-9 **Reach no:**	1,2-benzisothiazol-3(2H)-one	0 - 0.05%	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Acute Tox. 4 - H302 Aquatic Acute 1 - H400 Skin Sens. 1 - H317	
CAS no: 55965-84-9 **EC no:** 911-418-6 **Reach no:** 01-2120764691-48	Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	0 - 0.0015 %	Skin Corr. 1A - H314 Eye Dam. 1 - H318 Acute Tox. 2 - H310 Acute Tox. 2 - H330 Acute Tox. 3 - H301 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Skin Sens. 1 - H317 - EUH 071	Conc. limit: Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6% ATE: LD50 Oral: 53 mg/kg, ATE Dermal: 50,001 mg/kg, ATE Inhalation vapours: 0,501 mg/l M-Factor: Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice: Under ordinary workplace conditions: No special measures required.
Inhalation: Move person to fresh air. If effects occur, consult a physician.
Skin contact: Take off contaminated clothing. Wash with plenty of water or water and soap. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse.
Eye contact: Remove contact lenses, if present and easy to do. Wash eyes immediately and continuously with water for 30 minutes. Seek medical advice in case of continuous irritation.
Ingestion: Give as much water to drink as possible. Rinse mouth with water. Do NOT induce vomiting. Do not give anything by mouth unless the person is fully conscious. If effects occur, consult a physician.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media: Water spray.

5.2. Special hazards arising from the substance or mixture

Avoid breathing combustion products.

5.3. Advice for firefighters

Use personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Use personal protective equipment.
For emergency responders: Use personal protective equipment.

6.2. Environmental precautions

Prevent the product from entering sewers, surface water, groundwater.

6.3. Methods and materials for containment and cleaning up

Suck up the leaked product into a suitable container. Clean up remaining materials from spill with suitable absorbant.

6.4. Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the containers closed, in a well-ventilated place, away from direct sunlight.

7.3. Specific end use(s)

See the technical data sheet on this product for further information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TLV Occupational exposure limit of the entire mixture: Not available
TLV Occupational exposure limit of the ingredients:

2-(2-butoxyethoxy)ethanol

Region	Legislation	Long-term Exposure Limit (LTEL) Values			Short-term Exposure Limit (STEL) Values			Skin Designation	Dermal Sensitization	Respiratory Sensitization	Work Sector	Effective Date	Expiration Date	Miscellaneous Notes
		mg/m³	ppm	f/ml	mg/m³	ppm	f/ml							
European Union	OELs - Occupational Exposure Limits - 2nd list	67.5	10.0		101.2	15.0								

(2-methoxymethylethoxy)propanol

Region	Legislation	Long-term Exposure Limit (LTEL) Values		Short-term Exposure Limit (STEL) Values		Skin Designation	Dermal Sensitization	Respiratory Sensitization
		mg/m³	ppm	mg/m³	ppm			
European Union	OELs - Occupational Exposure Limits - 1st list	308.0	50.0			Yes		

DNEL Exposure limit values for the whole mixture: Not available
DNEL Exposure limit values of the ingredients:

2-(2-butoxyethoxy)ethanol

Data for WORKERS

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	(DNEL) 67.5 mg/m³
Acute / short term:	(DNEL) 101.2 mg/m³

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	Low hazard (no threshold derived)
Acute / short term:	No hazard identified

EYE Exposure
Medium hazard (no threshold derived)

Data for GENERAL POPULATION

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	Low hazard (no threshold derived)
Acute / short term:	Low hazard (no threshold derived)

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified

ORAL Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	(DNEL) 6.25 mg/kg bw/day

EYE Exposure
Medium hazard (no threshold derived)

2,4,7,9-tetramethyldec-5-yne-4,7-diol

Data for WORKERS

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 2.86 mg/m³
Acute / short term:	No hazard identified
Local Effects	
Long-term:	Medium hazard (no threshold derived)
Acute / short term:	Medium hazard (no threshold derived)

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 505 µg/m³
Acute / short term:	No hazard identified
Local Effects	
Long-term:	Medium hazard (no threshold derived)
Acute / short term:	Medium hazard (no threshold derived)

EYE Exposure
Medium hazard (no threshold derived)

Data for GENERAL POPULATION

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 505 µg/m³
Acute / short term:	No hazard identified
Local Effects	
Long-term:	Medium hazard (no threshold derived)
Acute / short term:	Medium hazard (no threshold derived)

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 290 µg/kg bw/day
Acute / short term:	No hazard identified
Local Effects	
Long-term:	Medium hazard (no threshold derived)
Acute / short term:	Medium hazard (no threshold derived)

ORAL Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	(DNEL) 290 µg/kg bw/day

EYE Exposure
Medium hazard (no threshold derived)

1,2-benzisothiazol-3(2H)-one

Data for WORKERS

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 6.81 mg/m³
Acute / short term:	No hazard identified
Local Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 966 µg/kg bw/day
Acute / short term:	No hazard identified
Local Effects	
Long-term:	High hazard (no threshold derived)
Acute / short term:	High hazard (no threshold derived)

EYE Exposure
Medium hazard (no threshold derived)

Data for GENERAL POPULATION

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 1.2 mg/m³
Acute / short term:	No hazard identified
Local Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 345 µg/kg bw/day
Acute / short term:	No hazard identified
Local Effects	
Long-term:	High hazard (no threshold derived)
Acute / short term:	High hazard (no threshold derived)

ORAL Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified

EYE Exposure
Medium hazard (no threshold derived)

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one

Data for WORKERS

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	(DNEL) 20 µg/m³
Acute / short term:	(DNEL) 40 µg/m³

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	No hazard identified
Acute / short term:	Medium hazard (no threshold derived)

EYE Exposure
High hazard (no threshold derived)

Data for GENERAL POPULATION

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	(DNEL) 20 µg/m³
Acute / short term:	(DNEL) 40 µg/m³

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	No hazard identified
Acute / short term:	No hazard identified
Local Effects	
Long-term:	No hazard identified
Acute / short term:	Medium hazard (no threshold derived)

ORAL Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 110 µg/kg bw/day
Acute / short term:	(DNEL) 90 µg/kg bw/day

EYE Exposure
High hazard (no threshold derived)

PNEC Exposure limit values for the entire mixture: Not available
PNEC Exposure limit values of the ingredients:

2-(2-butoxyethoxy)ethanol

Hazard for Aquatic Organism	
Freshwater	1.1 mg/L
Intermittent releases (freshwater)	11 mg/L
Marine water	110 µg/L
Intermittent releases (marine water)	-
Sewage treatment plant (STP)	No hazard identified
Sediment (freshwater)	4.4 mg/kg sediment dw
Sediment (marine water)	440 µg/kg sediment dw

Hazard for Air	
Air	No hazard identified

Hazard for Terrestrial Organism	
Soil	320 µg/kg soil dw

Hazard for Predators	
Secondary poisoning	56 mg/kg food

2,4,7,9-tetramethyldec-5-yne-4,7-diol

Hazard for Aquatic Organism	
Freshwater	40 µg/L
Intermittent releases (freshwater)	400 µg/L
Marine water	4 µg/L
Intermittent releases (marine water)	-
Sewage treatment plant (STP)	7 mg/L
Sediment (freshwater)	320 µg/kg sediment dw
Sediment (marine water)	32 µg/kg sediment dw

Hazard for Air	
Air	No hazard identified

Hazard for Terrestrial Organism	
Soil	28 µg/kg soil dw

Hazard for Predators	
Secondary poisoning	No potential for bioaccumulation

1,2-benzisothiazol-3(2H)-one

Hazard for Aquatic Organism	
Freshwater	4.03 µg/L
Intermittent releases (freshwater)	1.1 µg/L
Marine water	403 ng/L
Intermittent releases (marine water)	110 ng/L
Sewage treatment plant (STP)	1.03 mg/L
Sediment (freshwater)	49.9 µg/kg sediment dw
Sediment (marine water)	4.99 µg/kg sediment dw

Hazard for Air	
Air	No hazard identified

Hazard for Terrestrial Organism	
Soil	3 mg/kg soil dw

Hazard for Predators	
Secondary poisoning	No potential for bioaccumulation

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one

Hazard for Aquatic Organism	
Freshwater	3.39 µg/L
Intermittent releases (freshwater)	3.39 µg/L
Marine water	3.39 µg/L
Intermittent releases (marine water)	3.39 µg/L
Sewage treatment plant (STP)	230 µg/L
Sediment (freshwater)	27 µg/kg sediment dw
Sediment (marine water)	27 µg/kg sediment dw

Hazard for Air	
Air	No hazard identified

Hazard for Terrestrial Organism	
Soil	10 µg/kg soil dw

Hazard for Predators	
Secondary poisoning	No potential for bioaccumulation

8.2. Exposure controls

Appropriate engineering controls: Ensure adequate ventilation of the rooms.

Individual protection measures

Eye/Face protection: Use protective goggles.
Skin Protection: Hand Protection: Use of protective gloves is recommended when handling the material. Other: Wear professional long-sleeved work clothes and safety footwear (category S2 or superior).
Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. Wear a protective mask during spray application.
Thermal hazards: Not Available.

Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	white
Odour	typical
Melting point/freezing point	n.d.
Boiling point or initial boiling point and boiling range	n.d.
Flammability	n.a. (non flammable liquid)
Lower and upper explosion limit	n.a. (non flammable liquid)
Flash point	> 60 °C
Auto-ignition temperature	n.a. (non flammable liquid)
Decomposition temperature	n.d.
pH	8.0
Kinematic viscosity	30 - 70 mm²/s
Solubility	Water - glycols
Partition coefficient n-octanol/water (log value)	n.a. (mixture)
Vapour pressure	n.d.
Density and/or relative density	1.06 g/ml
Relative vapour density	n.d.
Particle characteristics	n.a. (liquid)

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not classified as a reactivity hazard.
(2-methoxymethylethoxy)propanol : Forms peroxides with: air.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

In normal conditions of use and storage no dangerous reactions are foreseeable.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No one in particular.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity

Acute oral toxicity Based on available data, the classification criteria are not met.
Acute dermal toxicity Based on available data, the classification criteria are not met.
Acute inhalation toxicity Based on available data, the classification criteria are not met.

Toxicity details of the ingredients:
1,2-benzisothiazol-3(2H)-one

Route of exposure	Result/Effect	Species/Test system	Source
Oral	Adverse effect observed LD50 490 mg/kg bw	rat	ECHA
Inhalation	-	-	-
Dermal	No adverse effect observed LD50 2 000 mg/kg bw	rat	ECHA

Skin corrosion/irritation
Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation
Based on available data, the classification criteria are not met.
Respiratory or skin sensitization
May cause an allergic reaction.
Germ cell mutagenicity
Based on available data, the classification criteria are not met.
Carcinogenicity
Based on available data, the classification criteria are not met.
Reproductive toxicity
Based on available data, the classification criteria are not met.
Specific Target Organ Systemic Toxicity (Single Exposure)
Based on available data, the classification criteria are not met.
Specific Target Organ Systemic Toxicity (Repeated Exposure)
Based on available data, the classification criteria are not met.
Aspiration Hazard
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties
The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2. Other information None available.

SECTION 12: Ecological information

12.1. Toxicity

No expected damaging effects to aquatic organisms.
Ingredients details:
1,2-benzisothiazol-3(2H)-one

Result/Effect	Species/Test system	Source
EC50: 110 µg/L EC10 or NOEC: 40.3 µg/L	freshwater algae	ECHA
EC10 or NOEC: 10.3 mg/L	microorganisms	ECHA

12.2. Persistence and degradability

Material is readily biodegradable.

Ingredients details:

1,2-benzisothiazol-3(2H)-one

	Results/Summaries	Source
Biodegradation in water - screening tests	Under test conditions no biodegradation observed (100%)	ECHA
Biodegradation in soil	Half-life in soil: 7.2 h @ 20 °C	ECHA

12.3. Bioaccumulative potential

No adverse effects expected.

12.4. Mobility in soil

No adverse effects expected.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

According to present knowledge no adverse influence to environment expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product residues to be considered non-hazardous waste. Do not dump into any sewers, on the ground, or into any body of water. Recommended cleaning agent for packaging: water.

SECTION 14: Transport information

14.1. UN number or ID number	Not regulated for transport.
14.2. Proper shipping name	Not regulated for transport.
14.3. Transport hazard class(es)	Not regulated for transport.
14.4. Packing group	Not regulated for transport.
14.5. Environmental hazards	Not Hazardous to the environment.
14.6. Special precautions for user	Relevant information in other sections has to be considered.
14.7. Maritime transport in bulk according to IMO instruments	Bulk transport in tankers is not intended.

SECTION 15: Regulatory Information

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

REACH - ANNEX XVII : Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	2-(2-butoxyethoxy)ethanol: listed in point 55 Do not use in paint spraying equipment
Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC	Two-pack reactive performance coatings for specific end use such as floors
CLP - ANNEX VI : Harmonised classification and labelling for certain hazardous substances	2-(2-butoxyethoxy)ethanol: listed in table 3.1
Other safety, health and environmental regulations/legislation specific for the substance or mixture:	None available.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

The information contained in this Safety Data Sheet is derived from the data provided by the suppliers of the components of the mixture, that we verified adequate and reliable by analogy with similar products and with the information provided by ECHA.

Legend

CLP	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures
ECHA	European Chemicals Agency
EC No.	European Community number
EWC	European Waste Catalogue
GHS	Globally Harmonized System
IC50	Half maximal inhibitory concentration
IMO	International Maritime Organization
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
REACH	Regulation (EC) No 1907/2006 of the European Parliamentand of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
TWA	Time Weighted Average
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative

Bibliography

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- European Chemical Agency (https://echa.europa.eu/)
- Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer
- Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants
- Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals
- Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC
- EN ISO 374-5:2016 - Protective gloves against dangerous chemicals and micro-organisms
- DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

Changes made to the previous version:

Sections 8 to 12
The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.
This document should not be construed as a guarantee of any specific property of the product.
Since the use of the product does not fall under our direct control, it is the user s obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.
Provide adequate training to personnel assigned to the use of chemical products.
End of safety datasheet

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Safety Data Sheet

Cerbero Sealer (Part B)

Revision:

11 October 2024
Supersedes version: 03/05/2021

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

1.1. Product Identifier

Cerbero Sealer (Part B)
UFI: P800-F0P3-Y00S-N813

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

Two-component water-based sealer for cementitious overlays.

1.3. Detail of the supplier of the safety data sheet

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National Distributor
Ecobeton Italy Srl

Information about the Safety Data Sheet:

tecnica@ecobeton.it

1.4. Emergency telephone number

Italy - Italia | Verona Integrated Hospital Company: 800 011 858
Full list at: preparatipericolosi.iss.it

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

Acute Tox. 4	H332
STOT SE 3	H335
Skin Sens. 1	H317
Aquatic Acute 1	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Hazard Pictograms



Signal Word

Warning

Hazard Statements:
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements:
P261 - Avoid breathing dust/fume/gas/mist/vapours/ spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P312 - Call a POISON CENTER/doctor/.../if you feel unwell.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other Hazards

PBT: Based on available data, the product does not contain PBT substances in percentage ≥ 0.1%.
vPvB: Based on available data, the product does not contain vPvB substances in percentage ≥ 0.1%.
The product is not listed or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100
Other Hazards: none

SECTION 3: Composition/information on ingredients

Chemical identity:

Two-component polyurethane resin

3.2. Mixtures

CAS / EC-No.	Component	Concentration	Classification: REGULATION (EC) No 1272/2008	Notes
CAS no: 666723-27-9 **EC no:** 679-494-0 **Reach no:**	Blocked Polyisocyanate Based on Hexamethylene Diisocyanate (HDI)	65- 70 %	Acute Tox. 3 - H331 STOT SE 3 - H335 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	ATE: ATE Inhalation vapours: 3mg/L
CAS no: 3779-63-3 **EC no:** 223-242-0 **Reach no:**	(2,4,6-trioxotriazine-1,3,5(2H,4H,6H)-triyl)tris(hexamethylene) isocyanate	25 - 30 %	Acute Tox. 3 - H331 STOT SE 3 - H335 Skin Sens. 1 - H317	
CAS no: 822-06-0 **EC no:** 212-485-8 **Reach no:** 01-2119457571-37-XXXX	Hexamethylene diisocyanate	< 0.055 %	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Acute Tox. 4 - H302 STOT SE 3 - H335 Skin Sens. 1 - H317 Acute Tox. 1 - H330 Resp. Sens. 1 - H334	Conc. limit: Resp. Sens. 1 H334 >= 0,5 % Skin Sens. 1 H317 >= 0,5 %
CAS no: 4098-71-9 **EC no:** 223-861-6 **Reach no:** 01-2119490408-31-0002	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate **IUPAC:** 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane	< 0.045 %	Skin Irrit. 2 - H315 Acute Tox. 4 - H302 STOT SE 3 - H335 Acute Tox. 1 - H330 Resp. Sens. 1 - H334 Aquatic Chronic 2 - H411 Skin Sens. 1 - H317	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice: Under ordinary workplace conditions: No special measures required.
Inhalation: Move person to fresh air. If effects occur, consult a physician.
Skin contact: Wash with plenty of water or water and soap. Take off contaminated clothing. Wash clothing before reuse.
Eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Seek medical attention immediately, preferably from an ophthalmologist.
Ingestion: Consult a physician immediately. Do NOT induce vomiting.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Exposure to combustion products may be a hazard to health.

5.3. Advice for firefighters

Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Follow safe handling advice and personal protective equipment recommendations.
For emergency responders: Use personal protective equipment. Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent the product from entering sewers, surface water, groundwater.

6.3. Methods and materials for containment and cleaning up

Suck up the leaked product into a suitable container. Clean up remaining materials from spill with suitable absorbant.

6.4. Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep in properly labelled containers.
Do not store with the following product types: None known.
Unsuitable materials for containers: None known.

7.3. Specific end use(s)

See the technical data sheet on this product for further information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TLV Occupational exposure limit of the entire mixture: Not available
DNEL Exposure limit values for the whole mixture: Not available
PNEC Exposure limit values for the entire mixture: Not available

8.2. Exposure controls

Appropriate engineering controls: Ensure adequate ventilation of the rooms.

Individual protection measures

Eye/Face protection: It is recommended to wear airtight protective goggles.
Skin Protection: Hand Protection: Use chemical resistant gloves classified under Standard EN374: Protective gloves against dangerous chemicals and micro-organisms. Other: Wear professional long-sleeved work clothes and safety footwear (category S2 or superior).
Respiratory protection: If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.
Thermal hazards: Not Available.

Environmental exposure controls
See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	transparent
Odour	light
Melting point/freezing point	n.d.
Boiling point or initial boiling point and boiling range	193 °C
Flammability	n.a. (not flammable liquid)
Lower and upper explosion limit	n.a. (not flammable liquid)
Flash point	> 88 °C
Auto-ignition temperature	440 °C
Decomposition temperature	n.d.
pH	n.a. (reacts with water)
Kinematic viscosity	n.d.
Solubility	insoluble
Partition coefficient n-octanol/water (log value)	n.a. (mixture)
Vapour pressure	3 hPa
Density and/or relative density	1.13 g/ml
Relative vapour density	n.d.
Particle characteristics	n.a. (liquid)

9.2. Other information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water, acids, alcohols, amines, bases and oxidants.

10.2. Chemical stability

TDI reacts with water to form predominantly solid and insoluble polyureas.Stability in alcohol, benzene, diglycolmonomethylether, ether, kerosene, acetone, carbon tetrachloride, chlorobenzene.

10.3. Possibility of hazardous reactions

The reaction is slow with cold or warm water (<50 °C), with hot water or steam the reaction is faster, producing carbon dioxide which causes an increase in pressure. Acids, alcohols, amines, bases and oxidants can cause overheating due to the heat of an exothermic reaction with a high risk of fire.

10.4. Conditions to avoid

High temperature. Humidity. Strong light.

10.5. Incompatible materials

Water. Alcohols. Amines. Acids. Oxidizing agents.

10.6. Hazardous decomposition products

No one in particular.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity

Acute oral toxicity Based on available data, the classification criteria are not met.
Acute dermal toxicity Based on available data, the classification criteria are not met.
Acute inhalation toxicity Acute inhalation toxicity category 4.

Toxicity details of the ingredients:
Hexamethylene diisocyanate

Route of exposure	Result/Effect	Species/Test system	Source
Oral	Adverse effect observed LD50 746 mg/kg bw	rat	ECHA
Inhalation	Adverse effect observed LC50 124 mg/m³ air	rat	ECHA
Dermal	No adverse effect observed Discriminating dose 7 000 mg/kg bw	rat	ECHA

Skin corrosion/irritation
Based on available data, the classification criteria are not met.
Corrosion/irritation details of the ingredients:
Hexamethylene diisocyanate

Result/Effect	Species/Test system	Source
Adverse effect observed (corrosive)	-	ECHA

Serious eye damage/eye irritation
Based on available data, the classification criteria are not met.
Eye damage/irritation details of the ingredients:
Hexamethylene diisocyanate

Result/Effect	Species/Test system	Source
Adverse effect observed (irritating)	-	ECHA

Respiratory or skin sensitization
May cause an allergic skin reaction.
Respiratory/Skin sensitization details of the ingredients:
Hexamethylene diisocyanate

	Result/Effect	Source
Skin sensitisation	Adverse effect observed (sensitising)	ECHA
Respiratory sensitisation	Adverse effect observed (sensitising)	ECHA

Germ cell mutagenicity
Based on known data a significant mutagenic potential may be excluded.
Germ cell mutagenicity details of the ingredients:
Hexamethylene diisocyanate

	Result/Effect	Source
Toxicity - InVitro	No adverse effect observed (negative)	ECHA
Toxicity - InVivo	No adverse effect observed (negative)	ECHA

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

Based on available data, the classification criteria are not met.
Specific Target Organ Systemic Toxicity (Single Exposure)
May cause respiratory irritation.
Specific Target Organ Systemic Toxicity (Repeated Exposure)
Based on available data, the classification criteria are not met.
STOT RE details of the ingredients:
Hexamethylene diisocyanate

Route of exposure	Result/Effect	Species/Test system	Source
Inhalation	Adverse effect observed NOAEC 35 µg/m³	chronic, rat	ECHA

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties
The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2. Other information None available.

SECTION 12: Ecological information

12.1. Toxicity

The product is to be considered as dangerous for the environment .Is harmful to aquatic organisms with long-term negative effects for the aquatic environment.
Ingredients details:
Hexamethylene diisocyanate

Result/Effect	Species/Test system	Source
EC50: 77.4 mg/L EC10 or NOEC: 77.4 mg/L	freshwater algae	ECHA
EC50: 842 mg/L	microorganisms	ECHA

12.2. Persistence and degradability

Material is not biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Completely discharge containers (no tear drops, no powder rest, scraped carefully). This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC.

SECTION 14: Transport information

14.1. UN number or ID number	Not regulated for transport.
14.2. Proper shipping name	Not regulated for transport.
14.3. Transport hazard class(es)	Not regulated for transport.
14.4. Packing group	Not regulated for transport.
14.5. Environmental hazards	Not Hazardous to the environment.
14.6. Special precautions for user	Relevant information in other sections has to be considered.
14.7. Maritime transport in bulk according to IMO instruments	Bulk transport in tankers is not intended.

SECTION 15: Regulatory Information

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

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC	Two-pack reactive performance coatings for specific end use such as floors
Other safety, health and environmental regulations/legislation specific for the substance or mixture:	None available.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

The information contained in this Safety Data Sheet is derived from the data provided by the suppliers of the components of the mixture, that we verified adequate and reliable by analogy with similar products and with the information provided by ECHA.

Full text of H-Statements referred to under sections 2 to 15.

H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Full text of P-Statements referred to under sections 2 to 15.

P261	Avoid breathing dust/fume/gas/mist/vapours/ spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER/doctor/.../if you feel unwell.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Legend

CAS No.	Chemical Abstracts Service (CAS) Registry Number
CLP	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures
ECHA	European Chemicals Agency
EC No.	European Community number
EWC	European Waste Catalogue
GHS	Globally Harmonized System
IC50	Half maximal inhibitory concentration
IMO	International Maritime Organization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
REACH	Regulation (EC) No 1907/2006 of the European Parliamentand of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
TWA	Time Weighted Average
UFI	Unique Formula Identifier
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
Acute Tox. 4	Acute toxicity
STOT SE 3	Specific target organ toxicity — single exposure
Skin Sens. 1	Respiratory/skin sensitization
Aquatic Acute 1	Hazardous to the aquatic environment

Bibliography

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- European Chemical Agency (https://echa.europa.eu/)
- Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer
- Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants
- Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals
- Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC
- EN ISO 374-5:2016 - Protective gloves against dangerous chemicals and micro-organisms
- DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directive
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods
- Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products
- Commission Delegated Regulation (EU) 2023/707 of 19 December 2022 amending Regulation (EC) No 1272/2008 as regards hazard classes and criteria for the classification, labelling and packaging of substances and mixtures

Changes made to the previous version:

Sections 1,3,11,12,15
The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.
This document should not be construed as a guarantee of any specific property of the product.
Since the use of the product does not fall under our direct control, it is the user s obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.
Provide adequate training to personnel assigned to the use of chemical products.
End of safety datasheet