Safety Data Sheet

Cerbero Base

Revision:

11 October 2024
Supersedes version: 1 November 2022

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

1.1. Product Identifier

Cerbero Base

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

Sealer for cementitious overlays

1.3. Detail of the supplier of the safety data sheet

Ecobeton Italy Srl
Via G.Galilei, 47
36030 Costabissara, Vicenza - Italy
Phone: +39.0444.971893
Email: info@ecobeton.it

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.

EUH 208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH 210	Safety data sheet available on request.

DIRECTIVE 2004/42/EC on the limitation of emissions of volatile organic compounds

Product Subcategory	Product VOC Content	Maximum VOC Content Limit
Primer	10 g/L	30 g/L

2.3. Other Hazards

PBT: none
vPvB: none
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:

acrylic resin

3.2. Mixtures

CAS / EC-No.	Component	Concentration	Classification: REGULATION (EC) No 1272/2008	Notes
CAS no: 111-76-2 **EC no:** 203-905-0 **Reach no:**	2-butoxyethanol **IUPAC:** Butoxyethanol	< 2%	Substance with a community workplace exposure limit. Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331	ATE: LD50 Oral: 1746 mg/kg bw/day, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/L, ATE Inhalation mist/dust: 1,5 mg/L
CAS no: 2634-33-5 **EC no:** 220-120-9 **Reach no:**	1,2-benzisothiazol-3(2H)-one	< 0,05%	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Acute Tox. 4 - H302 Aquatic Acute 1 - H400 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. Seek medical attention if symptoms occur or irritation persists.
Eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Seek medical advice in case of continuous irritation.
Ingestion: Give as much water to drink as possible. 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: All extinguishing agents can be used.
Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Avoid breathing combustion products.

5.3. Advice for firefighters

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
For emergency responders: Use personal protective equipment. Stop the leak if the operation is safe.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. 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

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Take care to prevent spills, waste and minimize release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Protect against frost. 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
TLV Occupational exposure limit of the ingredients:

2-butoxyethanol

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 - 1st list	98.0	20.0		246.0	50.0		Yes						

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

2-butoxyethanol

Data for WORKERS

INHALATION Exposure	Threshold
Systemic Effects	
Long-term:	(DNEL) 98 mg/m³
Acute / short term:	(DNEL) 1 091 mg/m³
Local Effects	
Long-term:	No hazard identified
Acute / short term:	(DNEL) 246 mg/m³

DERMAL Exposure	Threshold
Systemic Effects	
Long-term:	Low hazard (no threshold derived)
Acute / short term:	No hazard identified
Local Effects	
Long-term:	No hazard identified
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) 59 mg/m³
Acute / short term:	(DNEL) 426 mg/m³
Local Effects	
Long-term:	No hazard identified
Acute / short term:	(DNEL) 147 mg/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) 26.7 mg/kg bw/day
Acute / short term:	(DNEL) 6.3 mg/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)

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

2-butoxyethanol

Hazard for Aquatic Organism	
Freshwater	8.8 mg/L
Intermittent releases (freshwater)	26.4 mg/L
Marine water	880 µg/L
Intermittent releases (marine water)	-
Sewage treatment plant (STP)	463 mg/L
Sediment (freshwater)	34.6 mg/kg sediment dw
Sediment (marine water)	3.46 mg/kg sediment dw

Hazard for Air	
Air	No hazard identified

Hazard for Terrestrial Organism	
Soil	2.33 mg/kg soil dw

Hazard for Predators	
Secondary poisoning	20 mg/kg food

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

8.2. Exposure controls

Appropriate engineering controls: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/Face protection: Use 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: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.
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	> 60 °C
Lower and upper explosion limit	n.d.
Flash point	n.d.
Auto-ignition temperature	n.a. (non-flammable liquid)
Decomposition temperature	n.d.
pH	7.9
Kinematic viscosity	n.d.
Solubility	n.d.
Partition coefficient n-octanol/water (log value)	n.a. (mixture)
Vapour pressure	n.a.
Density and/or relative density	1.02 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.

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:

2-butoxyethanol

Route of exposure	Result/Effect	Species/Test system	Source
Oral	Adverse effect observed LD50 1 300 mg/kg bw	Guinea pig	ECHA

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:

2-butoxyethanol

Result/Effect	Species/Test system	Source
LC50 (4 days) 1.474 g/L	Fish (short-term)	ECHA
NOEC (21 days) 100 mg/L NOEC (14 days) 100 mg/L	Fish (long-term)	ECHA
EC50 (48 h) 1.55 - 1.8 g/L	Aquatic invertebrates (short-term)	ECHA
NOEC (21 days) 100 mg/L EC10 (21 days) 134 mg/L EC50 (21 days) 297 mg/L	Aquatic invertebrates (long-term)	ECHA
EC50 623 mg/L EC10 or NOEC 88 mg/L	Freshwater algae	ECHA
EC10 or NOEC 463 mg/L	Microorganisms	ECHA
EC50 / LC50: 11 400 mg/kg sediment dw	Freshwater sediment	ECHA

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:

2-butoxyethanol

	Results/Summaries	Source
Biodegradation in water - screening tests	Readily biodegradable (100%)	ECHA

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.

Ingredients details:

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

	Results/Summaries	Source
Bioaccumulation: aquatic / sediment	Bioaccumulation Factor (BCF) - dimensionless 6.62	ECHA
Adsorption/desorption	Koc at 20°C: 9.33	ECHA

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

Containers may be recycled or re-used. 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

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	Primer.
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

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

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:

Section 1 - 2 - 3 - 8 - 11 -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