

SAFETY DATA SHEET 146

BIOBASE SOLID

1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

1.1 Product identifier

Product name BIOBASE SOLID

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

Description/Application HARDNER

1.3 Details of the supplier of the safety data sheet

Name: BERICALCE S.R.L.
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Phone1: +39 0444 929102
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E-mail address of the competent person responsible to the Safety Data Sheet info@bericalce.it

1.4 Emergency telephone number

For urgent inquiries refer to SANITARY EMERGENCY

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and updates). This safety data sheet has been prepared in accordance with Regulation (EC) No. 1907/2006, as amended by Regulation (EU) 2020/878.

Hazard classification and indication:
Not classified as hazardous.

2.2 Label elements

Danger labeling: -
Warnings: -
Hazard indication:
EUH210 Safety data sheet available on request.
Contains: 5-cloro-2-metil-2H-isotiazol-3-one e 2-metil-2H-isotiazol-3-one (mix3:1)
It may cause an allergic skin reaction.

Safety advice: -

2.3 Other dangers

PBT and vPvB Assessment:
This substance/mixture does not contain any components considered to be both persistent, bioaccumulative, and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

BIOBASE SOLID

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

No relevant information.

3.2 Miscele

Hazardous components as defined by the CLP Regulation and their classification:

Quantità	Nome	Numero d'identif.	Classificazione
189 ppm	1,2-benzisotiazol-3(2H)-one; 1,2-benzisotiazolin-3-one	Numero Index: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9 REACH No.: 01-2120761540-60	3.1/2/Inhal Acute Tox. 2 H330 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 M=1. 4.1/C1 Aquatic Chronic 1 H410 M=1. Limiti di concentrazione specifici: C >= 0,036%: Skin Sens. 1A H317 Acute toxicity estimate: STA - Oral 450 mg/kg body weight STA - Inhalation (Dusts/mists) 0.21 mg/L
11 ppm	reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Index number: 613-167-00-5 CAS: 55965-84-9	3.1/2/Inhal Acute Tox. 2 H330 3.1/2/Dermal Acute Tox. 2 H310 3.1/3/Oral Acute Tox. 3 H301 3.2/1C Skin Corr. 1C H314 3.3/1 Eye Dam. 1 H318 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 M=100. 4.1/C1 Aquatic Chronic 1 H410 M=100. EUH071 Specific concentration limits: C >= 0,6%: Skin Corr. 1C H314 0,06% <= C < 0.6%: Skin Irrit. 2 H315 C >= 0,6%: Eye Dam. 1 H318 0,06% <= C < 0.6%: Eye Irrit. 2 H319 C >= 0,0015%: Skin Sens. 1A H317 Acute toxicity estimate: STA - Oral 100 mg/kg body weight STA - Dermal 50 mg/kg body weight STA - Inhalation (Dusts/mists) 0.31 mg/L

4 FIRST AID MEASURES

4.1 Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention.

Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Follow doctor's instructions.

BIOBASE SOLID

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Water. Carbon dioxide (CO₂)..

UNSUITABLE EXTINGUISHING EQUIPMENT

Nothing in particular.

5.2 Special hazards arising from the substance or mixture

Do not inhale the gases produced by the explosion and combustion.

Combustion produces heavy smoke.

This product will not burn until the water it contains has evaporated.

The residue is combustible.

Combustion of the dry product generates thick, black smoke.

Thermal decomposition or fire may release carbon oxides, gases, and vapors that are potentially hazardous to health.

5.3 Advice for firefighters

Use appropriate respiratory protection.

Collect the contaminated water used to extinguish the fire separately.

Do not discharge it into the sewer system.

If it is safe to do so, move undamaged containers away from the immediate danger zone.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For bystanders:

Wear personal protective equipment.

Move people to a safe location.

Refer to the protective measures listed in sections 7 and 8.

For responders:

Wear personal protective equipment.

6.2 Environmental precautions

Prevent penetration into the soil/subsoil. Prevent runoff into surface water or the sewer system.

Contain contaminated wash water and dispose of it.

In case of gas leakage or penetration into waterways, soil, or the sewer system, notify the responsible authorities.

6.3 Methods and material for containment and cleaning up

Suitable materials for cleanup: absorbent materials, organic materials, sand.

Rinse with plenty of water.

6.4 Reference to other sections

Information regarding personal protective equipment and disposal is provided in Section 8.

BIOBASE SOLID

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes, and avoid inhaling vapors and mists. See also Section 8 for recommended personal protective equipment. General occupational hygiene recommendations:

Do not eat or drink while working.

7.2 Conditions for safe storage, including any incompatibilities

Freeze-sensitive. Store at a temperature between +5°C and +35°C.

Storage class according to VCI (VCI = German Chemical Industry Association): 12 Nonflammable liquids. Keep away from food, beverages, and animal feed.

The product may develop a bacterial odor during long-term storage.

Incompatible materials:

None in particular.

Premises requirements:

Adequately ventilated areas.

Flash point: Not applicable

Provisions regarding EU Directive 2012/18 (Seveso III):

Seveso III category in accordance with Annex 1, Part 1

7.3 Specific end use(s)

No specific uses.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No occupational exposure limits are available

Derived No-Effect Level (DNEL) values

N/A

The Derived No-Effect Level (DNEL), where indicated in the SDS, is a safe exposure level derived from toxicological data in accordance with REACH regulations. The DNEL may differ from an occupational exposure limit (OEL). OEL values may be recommended by a single company, a government regulatory agency, or an expert organization such as ACGIH. OELs and DNELs are derived using different methods.

PNEC exposure limit values

N/A

8.2 Exposure controls

Eye protection:

Not required for normal use. However, follow good work practices.

Skin protection:

Chemical-resistant protective clothing.

Hand protection:

Not required for normal use.

Respiratory protection:

Not required for normal use.

Initial boiling point and boiling range: 100 °C at 1.013 hPa

Thermal hazards:

None

Environmental exposure controls:

See PNEC data, where available. See also subsections 6.2 and 13.1.

Appropriate engineering controls:

No specific measures.

BIOBASE SOLID

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	liquid
Color	whitish
Odor	Not significant
Odor threshold	Not available
pH	5 - 9
Melting or freezing point	0°C (1013 hPa)
Initial boiling point	100 °C at 1.013 hPa
Flash point	Not relevant
Evaporation rate	Not applicable
Flammability of solids and gases	Not applicable
Lower flammability limit	Not applicable
Upper flammability limit	Not applicable
Lower explosivity limit	Not relevant
Upper explosivity limit	Not relevant
Vapor pressure	approx. 23 hPa at 20 °C
Vapor density	No data available
Relative density	Not available
Solubility	Partially miscible in water
Partition coefficient: n-octanol/water	Not applicable
Autoignition temperature	Not relevant
Decomposition temperature	Not relevant
Viscosity	< 10 mPa·s at 20 °C
Water solubility	Completely miscible
Solubility in oil:	Not relevant
Partition coefficient n-butanol/water (logarithmic value):	Not applicable
Vapor pressure:	2.34 kPa (20°C) ref.
Density and/or relative density:	1.03 (20°C) ISO 758
Relative vapor density:	N/A
Particle size:	N/A

9.2 Other information

Evaporation rate:	N/A
Conductivity:	N/A
Viscosity:	2500 mPa·s (25°C) Brookfield RVT, ISO 2555 method

10 STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are known under normal conditions.

10.4 Conditions to avoid

Stable under normal conditions.

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products

None known; when used properly, no hazardous decomposition products are formed. Thermal decomposition or fire may release carbon oxides, gases, and vapors that are potentially hazardous to health.

BIOBASE SOLID

11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Toxicological information regarding the product:

a) Acute toxicity

Not classified

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

b) Skin corrosion/irritation

Not classified

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

c) Serious eye damage/serious eye irritation

Not classified

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

d) Respiratory or skin sensitization

Not classified

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

e) Germ cell mutagenicity

Not classified

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

f) Carcinogenicity

Not classified

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

g) Reproductive toxicity

Not classified

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

h) Specific target organ toxicity (STOT) – single exposure

Not classified

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

i) Specific target organ toxicity (STOT) – repeated exposure

Not classified

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

j) Aspiration hazard

Not classified

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

Adverse health effects

None in particular.

Toxicological information regarding the main substances present in the product:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one - CAS: 2634-33-5

a) Acute toxicity

STA - Oral 450 mg/kg body weight

STA - Inhalation (Dusts/mists) 0.21 mg/L

d) Respiratory or skin sensitization:

Test: Skin sensitization - Route: Skin - Species: Guinea pig Positive

Reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) - CAS: 55965-84-9

a) Acute toxicity

STA - Oral 100 mg/kg b.w.

STA - Dermal 50 mg/kg b.w.

STA - Inhalation (Dusts/mists) 0.31 mg/L

Test: LC50 - Route: Inhalation - Species: Rat = 0.31 mg/L - Duration: 4 h

Test: LD50 - Route: Oral - Species: Rat > 50 mg/kg

BIOBASE SOLID

Test: LD50 - Route: Dermal - Species: Rat > 50 mg/kg

b) skin corrosion/irritation:

Test: Skin corrosion - Route: Skin - Species: Rabbit Positive

c) serious eye damage/serious eye irritation:

Test: Serious eye damage - Species: Rabbit Positive

d) respiratory or skin sensitization:

Test: Skin sensitization - Species: Guinea pig Positive

11.2. Information on other hazards

Endocrine-disrupting properties:

No endocrine disruptors present in concentrations $\geq 0.1\%$

12 ECOLOGICAL INFORMATION**12.1 Toxicity**

Use in accordance with good working practices, avoiding release of the product into the environment.

Not classified as hazardous to the environment

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

12.2 Persistence and degradability

Biodegradability and bioaccumulation: these properties are specific to individual substances and cannot be provided for mixtures. Any information is derived from the properties of the individual components.

Biodegradability: Lactones. BOD 20 for the experimental lactones is below the detection limits of the apparatus.

The product undergoes slow biodegradation; it does not pose a significant ecological problem for water/soil.

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) - CAS: 55965-84-9

Biodegradability: Not readily biodegradable

12.3 Bioaccumulation potential

Bioaccumulation: Latex dispersions. Given the high molecular weight of the product, bioaccumulation of the polymeric component is not expected. Latex dispersions cause the water to take on a milky white color.

12.4 Mobility in soil

N.A.

12.5 Results of the PBT and vPvB assessment

vPvB substances: None - PBT substances: None

12.6. Endocrine-disrupting properties

No endocrine disruptors present in concentrations $\geq 0.1\%$

12.7 Other adverse effects

None

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Recover if possible. Follow applicable local and national regulations. Do not release the product into the environment.

For disposal within the EU, use the appropriate waste code (EER code). Assign the EER code based on the sector and type of process.

BIOBASE SOLID

14 TRANSPORT INFORMATION

Not classified as hazardous material

14.1 ONU number

Not classified as hazardous material

14.2 ONU shipping name

Not classified as hazardous material

14.3 Hazard classes connected to shipping

Not classified as hazardous material

14.4 Packaging group

Not classified as hazardous material

14.5 Environmental hazards

Not classified as hazardous material

14.6 Special precautions for users

Notes: Non-hazardous goods under transport regulations.

14.7 Shipping of bulk according to MARPOL 73/78 annex and the IBC code

Product not transported in bulk.

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dry residue: 46%

EU Regulation No. 528/2012 - The mixture contains a biocide; used as a preservative (Preservative for products during storage, product type 6, group 2 as defined in Annex V of the BPR).

WGK - Water contamination class (Germany), Classification according to AwSV: not determined

Products subject to Regulation (EU) 2019/1148 on the placing on the market and use of precursors of explosives:

Not applicable.

Legislative Decree No. 81 of April 9, 2008

Ministerial Decree of February 26, 2004 (Occupational Exposure Limits)

Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EC) No. 790/2009 (ATP 1 CLP) and (EU) No. 758/2013

Regulation (EU) No. 2020/878

Regulation (EU) No. 286/2011 (ATP 2 CLP)

Regulation (EU) No. 618/2012 (CLP Amendment 3)

Regulation (EU) No. 487/2013 (CLP Amendment 4)

Regulation (EU) No. 944/2013 (CLP Amendment 5)

Regulation (EU) No. 605/2014 (CLP Amendment 6)

Regulation (EU) No. 2015/1221 (CLP Amendment 7)

Regulation (EU) No. 2016/918 (CLP Amendment 8)

Regulation (EU) No. 2016/1179 (ATP 9 CLP)

Regulation (EU) No. 2017/776 (ATP 10 CLP)

Regulation (EU) No. 2018/669 (ATP 11 CLP)

Regulation (EU) No. 2018/1480 (ATP 13 CLP)

Regulation (EU) No. 2019/521 (ATP 12 CLP)

Regulation (EU) No. 2020/217 (ATP 14 CLP)

Regulation (EU) No. 2020/1182 (CLP Amendment 15)

Regulation (EU) No. 2021/643 (CLP Amendment 16)

Regulation (EU) No. 2021/849 (CLP Amendment 17)

BIOBASE SOLID

Regulation (EU) No 2023/707

Regulation (EU) No 2023/1434 (ATP 19 CLP)

Regulation (EU) No 2023/1435 (ATP 20 CLP)

Regulation (EU) No. 2024/197 (ATP 21 CLP)

Restrictions on the product or the substances it contains pursuant to Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments:

Restrictions on the product:

No restrictions.

Restrictions on contained substances:

Restriction 75

Where applicable, refer to the following regulations:

Ministerial Circulars 46/79 and 61/81 (Aromatic amines).

Directive 2012/18/EU (Seveso III)

Regulation 648/2004/EC (Detergents).

Legislative Decree No. 152 of April 3, 2006, Environmental Regulations

Directive 2004/42/EC (VOC Directive)

Provisions relating to Directive 2012/18/EU (Seveso III):

Seveso III category in accordance with Annex 1, Part 1

None

15.2 Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

16 OTHER INFORMATION

The product is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP). However, a MSDS is available upon request, prepared in accordance with Regulation (EC) No 1907/2006.

Text of the hazard statements used in Section 3:

H330 Fatal if inhaled.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long-lasting effects.

H310 Fatal in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and serious eye damage.

EUH071 Corrosive to the respiratory tract.

H319 Causes serious eye irritation.

Hazard class and category Code Description

Acute Tox. 2 3.1/2/Dermal Acute toxicity (dermal), Category 2

Acute Tox. 2 3.1/2/Inhal Acute toxicity (inhalation), Category 2

Acute Tox. 3 3.1/3/Oral Acute toxicity (oral), Category 3

Acute Tox. 4 3.1/4/Oral Acute toxicity (oral), Category 4

Skin Corr. 1C 3.2/1C Skin corrosion, Category 1C

Skin Irrit. 2 3.2/2 Skin irritation, Category 2

Eye Dam. 1 3.3/1 Serious eye damage, Category 1

BIOBASE SOLID

Eye Irrit. 2 3.3/2 Eye irritation, Category 2

Skin Sens. 1A 3.4.2/1A Skin sensitization, Category 1A

Aquatic Acute 1 4.1/A1 Acute hazard to the aquatic environment, Category 1

Aquatic Chronic 1 4.1/C1 Chronic (long-term) hazard to the aquatic environment, Category 1

This document was prepared by a competent SDS technician who has received appropriate training, based on information and data provided by sources both internal and external to the company.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eighth Edition - Van Nostrand Reinhold

CCNL - Annex 1

National Institute of Health - National Inventory of Chemical Substances

ICSC - International Chemical Safety Cards (WHO/IPCS/ILO)

The information contained herein is based on our knowledge as of the date indicated above. It refers solely to the product indicated and does not constitute a guarantee of specific qualities.

The user is responsible for ensuring the suitability and completeness of this information in relation to the specific use intended.

This document supersedes all previous editions.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (a division of the American Chemical Society).

CLP: Classification, Labeling, and Packaging.

DNEL: Derived No-Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: German Ordinance on Hazardous Substances.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations of the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions of the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Dangerous Goods Code.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Concentration lethal to 50 percent of the test population.

LD50: Dose lethal to 50 percent of the test population.

PNEC: Predicted No-Effect Concentration.

STP: Sewage Treatment Plant.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STA: Acute Toxicity Estimate

STAmix: Acute Toxicity Estimate (Mixtures)

STEL: Short-Term Exposure Limit.

STOT: Specific target organ toxicity.

TLV: Threshold limit value.

TWA: Time-weighted average.

WGK: Water hazard class (Germany).

BIOBASE SOLID

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations.

The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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