

# Safety Data Sheet

Complies with Annex II of REACH - Regulation (EU) 2020/878

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Code: 0030502  
Name: BIOTOP OPACO  
Chemical name and synonyms: BIOTOP OPACO

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

Sector of use: SU22 – Professional uses SU21- Consumer uses

Product category: PC31 – Polishes and wax mixtures.  
Description/Usage: Resin-wax finishing emulsion for wood

### 1.3. Information about the supplier of the safety data sheet

Business name: MARBEC SRL  
Address: VIA CROCE ROSSA 5/i  
Locality and State: 51037 MONTALE (PISTOIA)  
ITALY  
tel. +039 0573/959848  
fax:

e-mail of the competent person,  
responsible for the safety data sheet: info@marbec.it

### 1.4. Emergency telephone number

For urgent information please contact

MARBEC srl  
+390573959848 8.30am-1pm 2pm-6pm or +393348578502  
Telephone number of Poison Control Centers active 24 hours a day  
IRCSS Maugeri Foundation –  
Pavia 0039-0382-24444  
CAV Ospedali Riuniti –  
Bergamo 0039-800-883300  
CAV Niguarda Ca` Granda Hospital –  
Milan 0039-02-66101029  
CAV Careggi Hospital - Florence 0039-055-7947819  
CAV Gemelli Polyclinic –  
Rome 0039-06-3054343  
CAV Policlinico Umberto I –  
Rome 0039-06 49978000  
CAV Cardarelli Hospital –  
Naples 0039-081 5453333  
CAV Verona Integrated Hospital Company - Verona 800011858

## SECTION 2. Hazard Identification

### 2.1. Substance or mixture classification

The product is not classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP).

The product, however, contains dangerous substances in concentrations such as to be declared in section n.3, and requires a safety data sheet with adequate information, in compliance with Regulation (EU) 2020/878.

Hazard classification and indications:

## 2.2. Label elements

Hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms: --

Warnings: --

Hazard Statements:

**EUH210** Safety data sheet available on request.

Precautionary advice:

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Product not intended for the uses foreseen by Directive 2004/42/EC.

## 2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in percentages  $\geq 0.1\%$ .

The product does not contain substances with properties that interfere with the endocrine system in concentrations  $\geq 0.1\%$ .

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>ETHYLENE GLYCOL</b> CAS 107-21-1 CE 203-473-3 INDEX 603-027-00-1 REACH Reg. 01-2119456816-28-xxxx	$0 \leq x < 0.5$	Acute Tox. 4 H302, STOT RE 2 H373 ATE Oral: 500 mg/kg
<b>AMMONIA</b> CAS 1336-21-6	$0 \leq x < 0.5$	Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Classification note according to Annex VI of the CLP Regulation: B

CE 215-647-6

STOT SE 3 H335:  $\geq$  5%

INDEX 007-001-01-2

REACH Reg. 01-211948876-14-  
xxxx

The complete text of the hazard indications (H) is shown in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

Not specifically necessary. In any case, compliance with the rules of good industrial hygiene is recommended.

### 4.2. Main symptoms and effects, both acute and delayed

There is no specific information on the symptoms and effects caused by the product.

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

Information not available

## SECTION 5. Fire fighting measures

### 5.1. Fire fighting

#### SUITABLE EXTINGUISHING MEANS

The extinguishing media are traditional ones: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING MEANS

No one in particular.

### 5.2. Special hazards arising from the substance or mixture

#### DANGERS DUE TO EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products.

### 5.3. Recommendations for fire fighters

#### GENERAL INFORMATION

Cool the containers with jets of water to avoid decomposition of the product and the development of substances potentially dangerous to health. Always wear full fire protection equipment. Collect extinguishing water that must not be discharged into sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

#### EQUIPMENT

Normal fire-fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire fighter boots (HO A29 or A30).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

In case of vapors or dust dispersed in the air, wear respiratory protection. These indications are valid both for workers and for emergency interventions.

**6.2. Environmental precautions**

Prevent the product from entering sewers, surface waters and groundwater.

**6.3. Methods and materials for containment and cleanup**

Dike with earth or inert material. Collect most of the material and eliminate the residue with jets of water. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

**6.4. Reference to other sections**

Any information regarding personal protection and disposal is reported in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for Safe Handling**

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersing the product into the environment. Do not eat, drink or smoke during use.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep product in clearly labeled containers. Store containers away from any incompatible materials, checking section 10.

Storage class TRGS 510 (Germany):

10

**7.3. Specific end uses**

Information not available

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

Normative requirements:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
EXP	Spain	Professional exposure limits for chemical agents in Spain 2021
BETWEEN	France	Value limits of professional exposure to chemical agents in France. ED 984 - INRS
ITA	Italy	Legislative Decree 9 April 2008, n.81
PRT	Portugal	Decree-Lei n.º 1/2021 of 6 January, indicative professional exposure limit values for chemical agents. Legislative Decree no. 35/2020 of 13 July, protection of workers against risks linked to exposure during work with cancerous or mutagenic agents
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

**ETHYLENE GLYCOL****Threshold limit value**

Guy	State	TWA/8h	STEL/15min	Notes / Observations
		mg/m3	ppm	
		mg/m3	ppm	

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Replaces revision:2 (Revision date: 11/19/2020)

AGW	DEU	26	10	52	20	SKIN
MAK	DEU	26	10	52	20	SKIN
VLA	EXP	52	20	104	40	SKIN
VLEP	BETWEEN	52	20	104	40	SKIN
VLEP	ITA	52	20	104	40	SKIN
VLE	PRT	52	20	104	40	SKIN
WEL	GBR	52	20	104	40	SKIN
OEL	EU	52	20	104	40	SKIN
TLV-ACGIH			25		50	
TLV-ACGIH				10		INHALAB

**Predicted no-effect concentration on the environment - PNEC**

Reference value in fresh water	10	mg/l
Reference value in sea water	1	mg/l
Reference value for sediments in fresh water	20.9	mg/kg
Reference value for water, intermittent release	10	mg/l
Reference value for STP microorganisms	199.5	mg/l
Reference value for the terrestrial compartment	1.53	mg/kg/d

**Health - Derived No Effect Level - DNEL / DMEL**

Exhibition Street	Effects on consumers			Effects on workers				
	Acute rooms	Acute systemic	Chronic premises	Chronic systemic	Acute rooms	Acute systemic	Chronic premises	Chronic systemic
Inhalation			7 mg/m3				35 mg/m3	
Dermal				53 mg/kg bw/d				106 mg/kg bw/d

**AMMONIA**

**Threshold limit value**

Guy	State	TWA/8h	STEL/15min	Notes / Observations	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	14	20	36	50

**Predicted no-effect concentration on the environment - PNEC**

Reference value in fresh water	0.0011	mg/l
Reference value in sea water	0.011	mg/l

**Health - Derived No Effect Level - DNEL / DMEL**

Exhibition Street	Effects on consumers			Effects on workers				
	Acute rooms	Acute systemic	Chronic premises	Chronic systemic	Acute rooms	Acute systemic	Chronic premises	Chronic systemic
Inhalation						36 mg/m3		14 mg/m3
Dermal						6.8 mg/kg/d		

Legend:

(C) = CEILING ; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; TORAC = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no expected exposure; NPI = no hazard identified.

**8.2. Exposure controls**

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.

When choosing personal protective equipment, ask your chemical suppliers for advice if necessary.

Personal protective equipment must bear the CE marking which certifies their compliance with current regulations.

#### HAND PROTECTION

Protect your hands with category III work gloves (ref. standard EN 374).

For the final choice of work glove material, the following must be considered: compatibility, degradation, breaking time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. The gloves have a wear time that depends on the duration and method of use.

#### SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional category I use (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

#### EYE PROTECTION

We recommend wearing airtight protective glasses (ref. standard EN 166).

#### RESPIRATORY PROTECTION

Not necessary in normal use. If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a mask with a type B filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, combined filters must be provided.

The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by masks is limited.

In the event that the substance considered is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. standard EN 137) or a self-contained breathing apparatus external air (ref. EN 138 standard). For the correct choice of respiratory protection device, refer to the EN 529 standard.

#### ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Property	Value	Information
Physical State	liquid	
Color	white	
Odor	characteristic	
Melting or freezing point	Not applicable	
Initial boiling point	Not available	
Flammability	not inflammable	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 90°C	
Auto-ignition temperature	Not available	
pH	8	
Kinematic viscosity	Not available	
Solubility	miscible in water	
Partition coefficient: n-octanol/water	Not available	

Vapor pressure	Not available
Density and/or Relative density	1 Kg/lit
Relative vapor density	Not available
Characteristics of the particles	Not applicable

## 9.2. More information

### 9.2.1. Information regarding physical hazard classes

Information not available

### 9.2.2. Other safety features

VOC (Directive 2010/75/EU)	1.50% - 15.00 g/litre
Explosive properties	not explosive
Oxidizing properties	non-oxidizing

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

### 10.2. Chemical stability

The product is stable under normal conditions of use and storage.

### 10.3. Possibility of dangerous reactions

Under normal conditions of use and storage, dangerous reactions are not foreseeable.

### 10.4. Conditions to avoid

None in particular. However, follow the usual precautions regarding chemical products.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

## SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product itself, any health hazards of the product were assessed based on the properties of the substances contained, according to the criteria established by the reference legislation for classification.

Therefore, consider the concentration of the individual dangerous substances possibly mentioned in section. 3, to evaluate the toxicological effects resulting from exposure to the product.

**11.1. Information on the hazard classes defined in Regulation (EC) no. 1272/2008**Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

## ETHYLENE GLYCOL

WORKERS: inhalation; contact with the skin.

POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

Immediate, delayed and chronic effects resulting from short- and long-term exposures

## ETHYLENE GLYCOL

When ingested it initially stimulates the central nervous system; a phase of depression then sets in. There may be kidney damage, with anuria and uremia. Symptoms of overexposure are: vomiting, drowsiness, difficulty breathing, convulsions. The lethal dose for humans is approximately 1.4 ml/kg.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no relevant component)
ATE (Oral) of the mixture:	Not classified (no relevant component)
ATE (Dermal) of the mixture:	Not classified (no relevant component)

## ETHYLENE GLYCOL

LD50 (Dermal):	> 3500 mg/kg mouse
LD50 (Oral):	7712 mg/kg rat
LC50 (Vapour inhalation):	> 2.5 mg/l/6h rat (aerosol)

## AMMONIA

LD50 (Oral):	350 mg/kg Rat
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SKIN CORROSION / SKIN IRRITATION

It does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / EYE IRRITATION



It does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITIZATION

It does not meet the classification criteria for this hazard class

#### Respiratory sensitization

Information not available

#### Skin sensitization

Information not available

#### MUTAGENICITY ON GERM CELLS

It does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

It does not meet the classification criteria for this hazard class

#### ETHYLENE GLYCOL

The available studies have not shown any carcinogenic potential. In a 2-year carcinogenicity study conducted by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the diet, "no evidence of carcinogenic activity" was observed in male and female B6C3F1 mice. (NTP, 1993).

#### REPRODUCTION TOXICITY

It does not meet the classification criteria for this hazard class

#### Harmful effects on sexual function and fertility

Information not available

Harmful effects on the development of offspring

Information not available

Effects on or through breastfeeding

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

It does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

**DANGER IN CASE OF ASPIRATION**

It does not meet the classification criteria for this hazard class

**11.2. Information about other hazards**

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health being evaluated.

**SECTION 12. Ecological information**

Use according to good working practices, avoiding dispersing the product into the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated the soil or vegetation.

**12.1. Toxicity****AMMONIA**

LC50 - Pisces 47 mg/l/96h Channa punctata

EC50 - Crustaceans 20 mg/l/48h Daphnia magna

**ETHYLENE GLYCOL**

LC50 - Pisces > 18000 mg/l/96h onchorynchus mykiss

EC50 - Crustaceans > 100 mg/l/48h daphnia magna

EC50 - Algae / Aquatic Plants > 6500 mg/l/72h pseudokirchneriella subcapitata

Chronic NOEC Fish 15380 mg/l Fresh water fish - pimephales promelas 7 days

Chronic NOEC Crustaceans 8590 mg/l ceriodaphnia sp. 7 days

**12.2. Persistence and degradability****AMMONIA**

Degradability: data not available

**ETHYLENE GLYCOL**

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

**12.3. Bioaccumulative potential****ETHYLENE GLYCOL**

Partition coefficient: n-octanol/water -1.36

BCF < 100

**12.4. Mobility in soil**

Information not available

#### 12.5. Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in percentages  $\geq 0.1\%$ .

#### 12.6. Endocrine disrupting properties

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment being evaluated.

#### 12.7. Other adverse effects

Information not available

### SECTION 13. Disposal Considerations

#### 13.1. Waste treatment methods

Reuse if possible. Residues of the product as such are to be considered non-hazardous special waste. Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations.

#### CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

### SECTION 14. Transportation Information

The product is not to be considered dangerous pursuant to the provisions in force regarding the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

#### 14.1. UN number or ID number

Not applicable

#### 14.2. Official UN shipping name

Not applicable

#### 14.3. Transport hazard classes

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Dangers for the environment**

Not applicable

**14.6. Special precautions for users**

Not applicable

**14.7. Maritime transport in bulk in accordance with IMO acts**

Information not relevant

**SECTION 15. Regulatory information****15.1. Health, safety and environmental laws and regulations specific to the substance or mixture**

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or substances contained according to Annex XVII Regulation (EC) 1907/2006Substances contained

Point 75

Regulation (EU) 2019/1148 - relating to the placing on the market and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)Based on available data, the product does not contain SVHC substances in percentages  $\geq 0.1\%$ .Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification requirements Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Information not available

Water pollution classification in Germany (AwSV, vom 18. April 2017)

WGK 1: Not very dangerous for water

**15.2. Chemical safety assessment**

A chemical safety assessment has not been developed for the mixture / substances indicated in section 3.

**SECTION 16. Other information**

Text of the hazard statements (H) mentioned in sections 2-3 of the sheet:

<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>STOT IF 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Dangerous for the aquatic environment, acute toxicity, category 1
<b>H302</b>	Harmful if ingested.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H314</b>	It causes serious skin burns and serious eye injuries.
<b>H335</b>	May irritate the respiratory tract.
<b>H400</b>	Very toxic to aquatic organisms.
<b>EUH210</b>	Safety data sheet available on request.

**LEGEND:**

- ADR: European Agreement for the transport of dangerous goods by road
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived no-effect level
- EC50: Concentration that gives effect to 50% of the population subject to testing
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the Classification and Labeling of Chemical Products
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Immobilization concentration of 50% of the population subject to testing
- IMDG: International Maritime Code for the Transport of Dangerous Goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP

- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predictable no-effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any moment of occupational exposure.
- TWA: Weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Aquatic hazard class (Germany).

**GENERAL BIBLIOGRAPHY:**

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
  2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
  3. Regulation (EU) 2020/878 (Annex II of the REACH Regulation)
  4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
  5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
  6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
  7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
  8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
  9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
  10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
  11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - NI Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA Agency website
  - Database of SDS models of chemical substances - Ministry of Health and Istituto Superiore di Sanità

**Note for the user:**

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 interpreted 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. We do not assume responsibility for improper use.

Provide adequate training to personnel assigned to the use of chemical products.

**CLASSIFICATION CALCULATION METHODS**

Chemical-physical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

**MARBEC SRL**

Revision no. 3

Revision date 03/15/2022

**0030502 – BIOTOP OPACO**

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Replaces revision:2 (Revision date: 11/19/2020)

Changes compared to the previous revision  
Changes have been made to the following sections:  
02 / 03 / 09 / 11 / 12 / 15 / 16.