

## Safety Data Sheet

Compliant with Annex II of REACH - Regulation 2015/830

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

#### 1.1. Product identifier

Code: 38529113200101  
Name: BREATHABLE RESANA

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

Description / Use: Interior wall paint.

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

Business name: Colorificio A. & B. Casati SpA Via  
Address: Valpantena 59 / B - Poiano  
Location and State: 37142 VERONA (VR)  
ITALY  
tel. 045 550 244  
fax 045 550 414

e-mail of the competent person responsible for the safety data sheet: tintotec@casati.it

#### 1.4. Emergency telephone number

For urgent information contact:  
Ca 'Granda Niguarda Major Hospital (MI) Tel. 0266101029 A.  
Gemelli Polyclinic (ROME) Tel. 063054343  
CAV "Bambino Gesù Pediatric Hospital" Department of Emergency and Acceptance DEA (ROME) Tel. 0668593726  
CAV Policlinico "Umberto I" (ROME) Tel. 0649978000  
Cardarelli Hospital (NA) Tel. 0817472901  
Univ. Foggia Hospital (FG) Tel. 800183459 Papa Giovanni XXII  
Hospital (BG) Tel. 800883300  
CAV National Toxicological Information Center (PV) Tel. 038224444  
Careggi Hospital Medical Toxicology Unit (FI) Tel. 0557947819

### SECTION 2. Hazards identification

#### 2.1. Substance or mixture classification

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2015/830. Any additional information regarding risks to health and / or the environment are given in sections. 11 and 12 of this sheet.

Hazard classification and indications:  
Skin sensitization, category 1 H317 May cause an allergic skin reaction.

#### 2.2. Label elements

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

Hazard pictograms:



Warnings: Caution

Hazard statements:  
H317 May cause an allergic skin reaction.

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## SECTION 2. Hazards identification... / &gt;&gt;

## EUH208

Contains: Blend of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1)  
 It can cause an allergic reaction.

## Precautionary advice:

## P501

Dispose of the product / container in collection points for hazardous or special

## P102

waste. Keep out of reach of children.

## P280

Wear protective gloves.

## P101

If you need to consult a doctor, have the container or the label of the product available. Avoid

## P261

breathing dust / fume / gas / mist / vapors / spray.

## P333 + P313

If skin irritation or rash occurs: seek medical attention.

## Contains:

2-methyl-2H-isothiazol-3-one

## VOC (Directive 2004/42 / EC):

Opaque paints for interior walls and ceilings. VOC  
 expressed in g / liter of ready-to-use product:

Maximum limit:

0.58

30.00

- Diluted with:

3.00%

WATER

## 2.3. Other dangers

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

## SECTION 3. Composition / information on ingredients

## 3.2. Blends

Contains:

Identification

Conc. %

Classification 1272/2008 (CLP)

## 3-iodo-2-propinylbutylcarbamate

CAS 55406-53-6 0.025

Acute Tox. 3 H331, Acute Tox. 4 H302, STOT RE 1 H372, Eye Dam. 1 H318, Skin  
 Sens. 1 H317, Aquatic Acute 1 H400 M = 10, Aquatic Chronic 1 H410 M = 1

THERE IS  
 INDEX 259-627-5  
 616-212-00-7

## BRONOPOL

CAS 52-51-7 0.015

Acute Tox. 3 H301, Acute Tox. 3 H331, Acute Tox. 4 H312, Eye Dam. 1 H318,  
 Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M = 10,  
 Aquatic Chronic 2 H411

THERE IS  
 INDEX 200-143-0  
 603-085-00-8

## 2-methyl-2H-isothiazol-3-one

CAS 2682-20-4 0.005

Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye  
 Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M = 1,  
 Aquatic Chronic 2 H411

THERE IS  
 INDEX 220-239-6

## Blend of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1) CAS

55965-84-90.00

Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1A H314, Eye  
 Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M = 1,  
 Aquatic Chronic 1 H410 M = 1

THERE IS  
 INDEX 613-167-00-5

The full wording of the hazard statements (H) is given in section 16 of the sheet.

## SECTION 4. First aid measures

## 4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids well. Consult a physician immediately.

SKIN: Take off contaminated clothing. Take a shower immediately. Consult a physician immediately.

INGESTION: Give as much water to drink as possible. Consult a physician immediately. Do not induce vomiting unless expressly

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### SECTION 4. First aid measures... / >>

authorized by the doctor INHALATION: Call a doctor immediately. Take the person out into the fresh air, away from the scene of the accident. If breathing stops, give artificial respiration. Take adequate precautions for the rescuer.

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

No specific information on symptoms and effects caused by the product is known.

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

Information not available

### SECTION 5. Firefighting measures

#### 5.1. Fire fighting

SUITABLE EXTINGUISHING MEDIA

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

UNSUITABLE EXTINGUISHING MEDIA

No one in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Avoid breathing combustion products.

#### 5.3. Recommendations for firefighters

GENERAL INFORMATION

Cool the containers with jets of water to avoid product decomposition and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water which must not be discharged into the sewers.

Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

EQUIPMENT

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

### SECTION 6. Accidental release measures

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

Stop the leak if there is no danger.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for the workers and for emergency interventions.

#### 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. Evaluate the compatibility of the container to be used with the product, checking section 10.

Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. The 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 given in sections 8 and 13.

### SECTION 7. Handling and storage

#### 7.1. Precautions for Safe Handling

Handle the product after consulting all the other sections of this safety data sheet. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

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## SECTION 7. Handling and storage

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

Keep only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, checking section 10.

## 7.3. Specific end uses

Information not available

## SECTION 8. Exposure controls / personal protection

## 8.1. Control parameters

Normative requirements:

GBR United Kingdom EH40 / 2005 Workplace exposure limits (Third edition, published 2018)  
 TLV-ACGIH ACGIH 2019

## TITANIUM DIOXIDE

## Threshold limit value

Guy	State	TWA / 8h mg / m3	ppm	STEL / 15min mg / m3 ppm	Notes / Observations
WEL	GBR	4			RESPIR
WEL	GBR	10			INALAB
TLV-ACGIH		10			

## Predicted No Effect Concentration on the Environment - PNEC

Reference value in fresh water	0.184	mg / l
Reference value in sea water	0.0184	mg / l
Reference value for sediments in fresh water	1000	mg / kg
Reference value for sediments in sea water	100	mg / kg
Reference value for STP microorganisms	100	mg / l
Reference value for the food chain (secondary poisoning)	1667	mg / kg
Reference value for the terrestrial compartment	100	mg / kg

## Health - Derived no-effect level - DNEL / DMEL

Route of Exposition	Effects on Local Consumers		Effects on Systemic Locals		Effects on workers			
	acute	Systemic acute	chronic	Systemic chronic	Locals acute	Systemic acute	Locals chronic	Systemic chronic
Oral				700 mg / kg bw / d				
Inhalation								10 mg / m3

## POLESTAR 200 P

## Threshold limit value

Guy	State	TWA / 8h mg / m3	ppm	STEL / 15min mg / m3 ppm	Notes / Observations
TLV-ACGIH		2			RESPIR

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## SECTION 8. Exposure controls / personal protection

... / &gt;&gt;

## BRONOPOL

## Predicted No Effect Concentration on the Environment - PNEC

Reference value in fresh water	0.01	mg / l
Reference value in sea water	0.0008	mg / l
Reference value for sediments in fresh water	0.041	mg / kg
Reference value for sediments in sea water	0.00328	mg / kg
Reference value for water, intermittent release	0.0025	mg / l
Reference value for STP microorganisms	0.43	mg / l
Reference value for the terrestrial compartment	0.5	mg / kg

## Health - Derived no-effect level - DNEL / DMEL

Route of Exposition	Effects on Local Consumers				Effects on workers			
	Local	Systemic	Locals	Systemic	Locals	Systemic	Locals	Systemic
Oral	acute	acute	chronic	chronic	acute	acute	chronic	chronic
		1.1		0.35				
Inhalation		mg / kg bw / d		mg / kg bw / d				
	1.3	3.7	1.3	1.2	4.2	12.3	4.2	4.1
Dermal	mg / m3	mg / m3	mg / m3	mg / m3	mg / m3	mg / m3	mg / m3	mg / m3
	0.008	4.2	0.008	1.4	0.013	7	0.013	2.3
	mg / cm2	mg / kg bw / d	mg / cm2	mg / kg bw / d	mg / cm2	mg / kg	mg / cm2	mg / kg
						bw / d		bw / d

Legend:

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

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

For the choice of personal protective equipment, if necessary, seek advice from your chemical suppliers. Personal protective equipment must bear the CE mark which certifies their compliance with current regulations. Provide an emergency shower with face and eye basin.

## HAND PROTECTION

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

For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. 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 use of category II (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

## EYE PROTECTION

It is recommended to wear airtight protective goggles (ref. Standard EN 166).

**RESPIRATORY PROTECTION**  
 In case of exceeding the threshold value (eg TLV-TWA) of the substance or of one or more of the substances present in the product, 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 there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

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

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

## ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing 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	
Odor threshold	Unavailable	

**38529113200101 - BREATHABLE RESANA****SECTION 9. Physical and chemical properties... / >>**

pH	7.5-8.5
Melting or freezing point Initial	Unavailable
boiling point	Unavailable
Boiling range Flash	Unavailable
point Evaporation rate	> 60 ° C
	Unavailable
Flammability of solids and	Unavailable
gases Lower flammability limit	Unavailable
Upper flammability limit Lower	Unavailable
explosive limit Upper explosive	Unavailable
limit Vapor pressure	Unavailable
	Unavailable
Vapor density	Unavailable
Relative density	0.78
Solubility	Miscible with water
Partition coefficient: n-octanol / water: Auto-	Unavailable
ignition temperature	Unavailable
Decomposition temperature	Unavailable
Viscosity	Unavailable
Explosive properties	Unavailable
Oxidizing properties	Unavailable

**9.2. Other information**

VOC (Directive 2004/42 / EC): 0.08% - 0.60 g / liter

**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

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

**10.4. Conditions to avoid**

None in particular. However, follow the usual precautions towards chemicals.

**10.5. Incompatible materials**

Information not available

**10.6. Hazardous decomposition products**

BRONOPOL  
By decomposition it develops: nitrogen oxides.

**SECTION 11. Toxicological information**

In the absence of experimental toxicological data on the product itself, any health hazards of the product have been assessed on the basis of 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 sect. 3, to evaluate the toxicological effects deriving from exposure to the product.

**11.1. Information on toxicological effects**

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

**38529113200101 - BREATHABLE RESANA****SECTION 11. Toxicological information... / >>**

Delayed and immediate effects and chronic effects from short and long term exposure

Information not available

Interactive effects

Information not available

**ACUTE TOXICITY**

LC50 (Inhalation) of the mixture:  
LD50 (Oral) of the mixture: LD50  
(Dermal) of the mixture:

Not classified (no relevant component) Not  
classified (no relevant component) Not  
classified (no relevant component)

3-iodo-2-propinylbutylcarbamate

LD50 (Oral) > 300 mg / kg Rat

LD50 (Dermal) > 2000 mg / kg Rat

LC50 (Inhalation) 0.67 mg / l

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LD50 (Oral) 193 mg / kg Rat

LD50 (Dermal) 1100 mg / kg Rat

LC50 (Inhalation) > 0.588 mg / l / 4h Rat

**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**

Skin sensitizer

It can cause an allergic reaction.

Contains:

Blend of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1)

**MUTAGENICITY ON GERMINAL CELLS**

It does not meet the classification criteria for this hazard class

**CARCINOGENICITY**

It does not meet the classification criteria for this hazard class

**REPRODUCTION TOXICITY**

It does not meet the classification criteria for this hazard class

**SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE**

It does not meet the classification criteria for this hazard class

**SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE**

It does not meet the classification criteria for this hazard class

**DANGER IN CASE OF SUCTION**

It does not meet the classification criteria for this hazard class

**38529113200101 - BREATHABLE RESANA****SECTION 12. Ecological information**

As specific data on the preparation are not available, use according to good working practices, avoiding to disperse the product in the environment. Avoid dispersing the product in the ground or water courses. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation. Take measures to minimize the effects on the aquifer.

**12.1. Toxicity**

2-methyl-2H-isothiazol-3-one LC50 - Fish	6 mg / l / 96h
EC50 - Crustaceans	1.61 mg / l / 48h
Chronic NOEC for Pisces	3.06 mg / l
Chronic NOEC Crustaceans	0.882 mg / l
3-iodo-2-propinylbutylcarbamate LC50 - Fish	0.145 mg / l / 96h Oncorhynchus mykiss
EC50 - Crustaceans	0.47 mg / l / 48h Daphnia magna
EC50 - Algae / Aquatic Plants	0.049 mg / l / 72h Pseudokirchneriella subcapitata
NOEC Chronic Fish	0.014 mg / l pimephales promelas-28d
Chronic NOEC Crustaceans	0.01 mg / l Daphnia magna-21d
Chronic NOEC for Algae / Aquatic Plants	0.013 mg / l / 72h Pseudokirchneriella subcapitata
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1)	
LC50 - Fish	0.19 mg / l / 96h
EC50 - Crustaceans	0.16 mg / l / 48h
Chronic NOEC Crustaceans	0.035 mg / l
BRONOPOL LC50 - Pisces	11 mg / l / 96h Bluegill sunfish
EC50 - Crustaceans	1.08 mg / l / 48h Daphnia magna (Water flea) 0.25
EC50 - Algae / Aquatic Plants	mg / l / 72h Pseudokirchneriella subcapitata 0.06 mg /
Chronic NOEC Crustaceans	l Daphnia magna (Water flea) 0.03 mg / l
Chronic NOEC for Algae / Aquatic Plants	Pseudokirchneriella subcapitata

**12.2. Persistence and degradability**

3-iodo-2-propinylbutylcarbamate  
Rapidly degradable

BRONOPOL  
Inherently degradable

**12.3. Bioaccumulation potential**

3-iodo-2-propinylbutylcarbamate Partition  
coefficient: n-octanol / water 2.8 Log Kow OECD 117

**12.4. Mobility in soil**

Information not available

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

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

**12.6. Other adverse effects**

Information not available



### 13.1. Waste treatment methods

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations.

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

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

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not relevant information

### 15.1. Health, safety and environmental legislation and regulations specific to the substance or mixture

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

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain SVHC substances in percentage greater than 0.1%.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification obligation Reg. (EC) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

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## SECTION 15. Regulatory information

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Substances subject to the Stockholm Convention:

None

Sanitary checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

VOC (Directive 2004/42 / EC):

Opaque paints for interior walls and ceilings.

Legislative Decree 152/2006 and subsequent amendments

Emissions according to Part V Annex I:

TAB. B.	Class 3	00.31%
TAB. D.	Class 3	<0.01%
WATER		29.74%

## 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 hazard (H) indications mentioned in sections 2-3 of the sheet:

<b>Acute Tox. 2</b>	Acute toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 1</b>	Specific target organ toxicity - repeated exposure, category 1 Skin
<b>Skin Corr. 1A</b>	corrosion, category 1A
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3 Skin
<b>Skin Sens. 1</b>	sensitization, category 1
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if ingested.
<b>H311</b>	Toxic in contact with the skin.
<b>H331</b>	Toxic if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure. It
<b>H314</b>	causes serious skin burns and serious eye injuries.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation. It can
<b>H335</b>	irritate the respiratory tract.
<b>H317</b>	May cause an allergic skin reaction. Very toxic
<b>H400</b>	to aquatic organisms.
<b>H410</b>	Very toxic to aquatic life with long lasting effects. Toxic to aquatic
<b>H411</b>	life with long lasting effects.

## LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration affecting 50% of the population under test
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for Classification and Labeling of Chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International maritime code for the transport of dangerous goods

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### SECTION 16. Other information... / >>

- IMO: International Maritime Organization - INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: EC Regulation 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration which must not be exceeded during any moment of occupational exposure.
- TWA STEL: Short term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Water 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) 790/2009 of the European Parliament (I Atp. CLP)
  4. Regulation (EU) 2015/830 of the European Parliament
  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) 2018/1480 (XIII Atp. CLP)
  16. Regulation (EU) 2019/521 (XII 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 National Institute of Health

#### 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 construed as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, the user is obliged to observe the laws and regulations in force on 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.

The classification of the product is based on the calculation methods set out in Annex I of CLP, unless otherwise indicated in sections 11 and 12.

The methods for evaluating the chemical-physical properties are reported in section 9.

Changes compared to the previous revision The following sections have been made changes:

02/03/04/06/07/08/09/10/11/12/13/15 / 16. TLV

changed in section 8.1 for the following countries: GBR ,  
TLV-ACGIH,