

308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 1 / 11

Page n. 1 / 11 Replaced revision:3 (Dated 27/11/2022)

# **Safety Data Sheet**

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Product name 308

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

Intended use Water based acrylic paint for interiors.Professional and Commercial Use

Uses advised against Uses other than those indicated

1.3. Details of the supplier of the safety data sheet

Name OIKOS S.P.A. A SOCIO UNICO

Full address Via Cherubini 2

District and Country 47043 Gatteo Mare (FC)

Italia

Tel. 0547 681412 Fax 0547 681430

e-mail address of the competent person

responsible for the Safety Data Sheet certificazioniprodotti@oikos-group.it

1.4. Emergency telephone number

For urgent inquiries refer to NHS National Health Service 111

OIKOS S.P.A. a socio unico Company emergency number: 0547 681412 Technical support - Monday to Friday from 8.00-13.00; 13:30 to 16:30

# **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

EUH210 Safety data sheet available on request.
EUH208 Contains: 2-methyl-2H-isothiazol-3-one

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and

2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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

May produce an allergic reaction.

Precautionary statements: -

VOC (Directive 2004/42/EC):

Interior matt walls and ceilings (Gloss < 25@60°).



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 2 / 11

Page n. 2 / 11 Replaced revision:3 (Dated 27/11/2022)

### SECTION 2. Hazards identification .../>>

VOC given in g/litre of product in a ready-to-use condition : 2,00 Limit value: 30,00

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

## **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

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

INDEX 613-088-00-6 0,044 ≤ x < 0,05 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 220-120-9 Skin Sens. 1 H317: ≥ 0,05% CAS 2634-33-5 LD50 Oral: >490 mg/kg bw

REACH Reg. 01-2120761540-60

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

(3:1) INDEX

613-167-00-5 0,00144 ≤ x < 0,0015 Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C

H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100

EC 611-341-5 Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317:

≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%

CAS 55965-84-9 LD50 Oral: >64 mg/kg bw, STA Dermal: 50,001 mg/kg, STA Inhalation

vapours: 0,501 mg/l

REACH Reg. 01-2120764691-48 2-methyl-2H-isothiazol-3-one

INDEX 0,00114 ≤ x < 0,00119 Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B

H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10,

Aquatic Chronic 1 H410 M=1, EUH071 Skin Sens. 1A H317: ≥ 0,0015%

EC 220-239-6 Skin Sens. 1A H317: ≥ 0,0015% CAS 2682-20-4 STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, LC50 Inhalation

mists/powders: 0,1 mg/l/4h

REACH Reg. 01-2120764690-50

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

# SECTION 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 suitable precautions for rescue workers.

# 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

Information not available



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 3 / 11

Page n. 3 / 11 Replaced revision:3 (Dated 27/11/2022)

# **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

### 5.3. Advice for firefighters

### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6. Accidental release measures**

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

## 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

# 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 4 / 11 Replaced revision:3 (Dated 27/11/2022)

# **SECTION 8. Exposure controls/personal protection**

## 8.1. Control parameters

Reaction mass of 5-chl 220-239-61 (3:		,							
.c. و-259-6] redicted no-effect cor	,	- PNEC							
Normal value in fresh water						3,39	μg/l		
Normal value in marine water						3,39	μg/l		
Normal value for fresh water sediment						27	μg/kg		
Normal value for marine water sediment						27	μg/kg		
Normal value of STP microorganisms						230	μg/l		
lealth - Derived no-eff	ect level - D	NEL / DMEL							
	Effects on consumers				Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Oral		110 μg/kg bw/d		90 μg/kg bw/d					
Inhalation	40	NPI	20	NPI	40	NPI	20	NPI	
	μg/m3		μg/m3		µg/m3		μg/m3		
Skin		NPI	NPI	NPI		NPI	NPI	NPI	

			1,2-benzisc	othiazol-3(2H)-o	ne			
Predicted no-effect co	ncentration	- PNEC						
Normal value in fresh water						4,03	μg/l	
Normal value in marine water						403	ng/l	
Normal value for fresh water sediment						49,9	μg/kg	
Normal value for mar			4,99	μg/kg				
Normal value of STP	isms			1,03	mg/l			
Health - Derived no-eff	ect level - D	NEL / DMEL					_	
	Effects o	n consumers		Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation		·		1,2		•		6,81
				mg/m3				mg/m3
Skin				345				966
				μg/kg bw/d				μg/kg
								bw/d

			2-methyl-2h	l-isothiazol-3-o	ne			
Predicted no-effect co	ncentration	- PNEC						
Normal value in fresh water						3,39	μg/l	
Normal value in marine water						3,39	μg/l	
Normal value of STP microorganisms						230	μg/l	
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		53		27				
		μg/kg bw/d		μg/kg bw/d				
Inhalation	43	NPI	21	NPI	43	NPI	21	NPI
	μg/m3		μg/m3		μg/m3		μg/m3	
Skin	NPI	NPI	NPI	NPI		NPI	NPI	NPI

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category III work gloves.



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 5 / 11 Replaced revision:3 (Dated 27/11/2022)

# SECTION 8. Exposure controls/personal protection .../>>

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS** 

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# **SECTION 9. Physical and chemical properties**

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

Properties Value Information

Appearance pasty liquid

Colour White and the colour chart

Odour Feeble
Melting point / freezing point not available
Initial boiling point > 100 °C

Flammability not flammable
Lower explosive limit not applicable
Upper explosive limit not applicable
Flash point > 60 °C
Auto-ignition temperature not applicable

Decomposition temperature not available pH 8-9

Kinematic viscosity not available
Dynamic viscosity 22000 cps
Solubility Mixable in water

Partition coefficient: n-octanol/water not available
Vapour pressure not available
Density and/or relative density 1,46

Relative vapour density not available Particle characteristics not applicable

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC): 2,18 % - 31,80 g/litre

Explosive properties not applicable Oxidising properties not applicable

©EPY 11.5.1 - SDS 1004.14



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 6 / 11 Replaced revision:3 (Dated 27/11/2022)

# **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 in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

## ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

(3:1)

LD50 (Dermal): 1008 mg/kg bw (rat)

STA (Dermal): 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): > 64 mg/kg bw 64-561 (rat) LC50 (Inhalation vapours): > 171 mg/m3 171-2360 (rat)



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 7 / 11

Page n. 7 / 11 Replaced revision:3 (Dated 27/11/2022)

## SECTION 11. Toxicological information .../>>

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

LD50 (Dermal): LD50 (Oral): 2000 mg/kg bw (rat) > 490 mg/kg bw 490-670 (rat)

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

LC50 (Inhalation mists/powders): 0,1 mg/l/4h ratto rif.oecd guideline 403

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

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

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### 11.2. Information on other hazards

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

## **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

## 12.1. Toxicity

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

 LC50 - for Fish
 > 190  $\mu$ g/l 190-330

 EC50 - for Crustacea
 > 7  $\mu$ g/l 7-160

 EC50 - for Algae / Aquatic Plants
 > 6,3  $\mu$ g/l 6,3-27,3

 Chronic NOEC for Fish
 46,4  $\mu$ g/l 35 days

 Chronic NOEC for Crustacea
 > 111  $\mu$ g/l 11.1-1050

- 111 μg/1 11.1-1030



308

Revision nr.4
Dated 08/03/2024
Printed on 08/03/2024
Page n. 8 / 11
Replaced revision:3 (Dated 27/11/2022)

### SECTION 12. Ecological information .../>>

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

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

LC50 - for Fish > 4,77 mg/l 4,77-6

EC50 - for Crustacea 1,6 mg/l

Chronic NOEC for Crustacea > 44,2 µg/l 44,2-550 (21 days)

## 12.2. Persistence and degradability

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Rapidly degradable

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

2-methyl-2H-isothiazol-3-one Rapidly degradable

### 12.3. Bioaccumulative potential

Information not available

### 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 any PBT or vPvB in percentage ≥ than 0,1%.

### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number or ID number

not applicable

## 14.2. UN proper shipping name

not applicable



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 9 / 11 Replaced revision:3 (Dated 27/11/2022)

### SECTION 14. Transport information .../>>

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC):

Interior matt walls and ceilings (Gloss < 25@60°).

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

# 15.2. Chemical safety assessment

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

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

#### ΕN



# OIKOS S.P.A. A SOCIO UNICO

308

Printed on 08/03/2024

Page n. 10 / 11 Replaced revision:3 (Dated 27/11/2022)

### **SECTION 16. Other information**

Skin Corr. 1B Skin corrosion, category 1B Skin Corr. 1C Skin corrosion, category 1C Eye Dam. 1 Serious eye damage, category 1 Skin Irrit. 2 Skin irritation, category 2 Skin Sens. 1 Skin sensitization, category 1 Skin sensitization, category 1A Skin Sens. 1A

Hazardous to the aquatic environment, acute toxicity, category 1 Aguatic Acute 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1

H310 Fatal in contact with skin. H330 Fatal if inhaled. H301 Toxic if swallowed. H311 Toxic in contact with skin. H302 Harmful if swallowed.

Causes severe skin burns and eye damage. H314

H318 Causes serious eye damage. Causes skin irritation. H315

H317 May cause an allergic skin reaction.

Very toxic to aquatic life. H400

H410 Very toxic to aquatic life with long lasting effects.

**EUH071** Corrosive to the respiratory tract. **EUH210** Safety data sheet available on request.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)



308

Revision nr.4 Dated 08/03/2024 Printed on 08/03/2024 Page n. 11 / 11 Replaced revision:3 (Dated 27/11/2022)

3

### SECTION 16. Other information ....

- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### 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.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

### Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.