



# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## **1.1 Product identifier:** 4230 - Topeca Verniz Gran

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

Relevant uses: Speciality application. For professional user only.

Uses advised against: All uses not specified in this section or in section 7.3

## 1.3 Details of the supplier of the safety data sheet:

Topeca, Lda Rua Dom Nunes Alvares Pereira, nº 53 2490-114 Cercal - Ourém - Santarém - Portugal Phone.: +351 249580070 - Fax: +351 249580079 geral@topeca.pt www.topeca.pt

1.4 Emergency telephone number: CIAV: +351 800 250 250

### SECTION 2: HAZARDS IDENTIFICATION \*\*

## 2.1 Classification of the substance or mixture:

### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

## 2.2 Label elements:

### CLP Regulation (EC) No 1272/2008:

Warning



### Hazard statements:

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure

### **Precautionary statements:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray

P314: Get medical advice/attention if you feel unwell

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

### Supplementary information:

EUH208: Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction

### Substances that contribute to the classification

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

### 3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Additive/s Components:

\*\* Changes with regards to the previous version





# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\* (continued)

### In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration		
CAS: 64742-82-1 EC: 919-446-0 Index: Non-applicable REACH: 01-2119458049-33- XXXX	• · · · = • = =	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) <sup>(1)</sup> Self-classified				
	Non-applicable 01-2119458049-33-	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT RE 1: H372; STOT SE 3: H336; EUH066 - Danger	1 - <2,5 %		
CAS:	111-76-2	2-butoxyethanol <sup>(2)</sup>	ATP CLP00			
EC: 203-905-0 Index: 603-014-00-0 REACH: 01-2119475108-36- XXXX		Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	<1 %		
CAS:	1336-21-6	Ammonia < 5 %, aq	ueous solution <sup>(2)</sup> ATP CLP00			
EC: Non-applicable Index: 007-001-01-2 REACH: 01-2119982985-14- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	<1 %			
CAS: 55965-84-9 EC: Non-applicable		reaction mass of 5-c 3-one (3:1) <sup>(1)</sup>	hloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol- ATP ATP13			
Index: 613-167-00-5 REACH: Non-applicable		Regulation 1272/2008	Acute Tox. 2: H310+H330; Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314; Skin Sens. 1A: H317; EUH071 - Danger	<1 %		

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830 <sup>(2)</sup> Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

\*\* Changes with regards to the previous version

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

## By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

### By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:





# SECTION 5: FIREFIGHTING MEASURES (continued)

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

## 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

## 6.2 Environmental precautions:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage





# SECTION 7: HANDLING AND STORAGE (continued)

Minimum Temp.: 5 °C

Maximum Temp.:30 °CMaximum time:12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

# 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Environmental limits		
2-butoxyethanol	IOELV (8h)	20 ppm	98 mg/m <sup>3</sup>
CAS: 111-76-2 EC: 203-905-0	IOELV (STEL)	50 ppm	246 mg/m <sup>3</sup>
Ammonia < 5 %, aqueous solution	IOELV (8h)	20 ppm	14 mg/m <sup>3</sup>
CAS: 1336-21-6 EC: Non-applicable	IOELV (STEL)	50 ppm	36 mg/m <sup>3</sup>

### DNEL (Workers):

		Short e	xposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-82-1	Dermal	Non-applicable	Non-applicable	44 mg/kg	Non-applicable
EC: 919-446-0	Inhalation	Non-applicable	Non-applicable	330 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 111-76-2	Dermal	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	663 mg/m <sup>3</sup>	246 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	Non-applicable
Ammonia < 5 %, aqueous solution	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1336-21-6	Dermal	6,8 mg/kg	Non-applicable	6,8 mg/kg	Non-applicable
EC: Non-applicable	Inhalation	47,6 mg/m <sup>3</sup>	36 mg/m <sup>3</sup>	47,6 mg/m <sup>3</sup>	14 mg/m <sup>3</sup>

### DNEL (General population):

		Short e	exposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Oral	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
CAS: 64742-82-1	Dermal	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
EC: 919-446-0	Inhalation	Non-applicable	Non-applicable	71 mg/m³	Non-applicable
2-butoxyethanol	Oral	13,4 mg/kg	Non-applicable	3,2 mg/kg	Non-applicable
CAS: 111-76-2	Dermal	44,5 mg/kg	Non-applicable	38 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	426 mg/m <sup>3</sup>	123 mg/m <sup>3</sup>	49 mg/m³	Non-applicable
Ammonia < 5 %, aqueous solution	Oral	6,8 mg/kg	Non-applicable	6,8 mg/kg	Non-applicable
CAS: 1336-21-6	Dermal	68 mg/kg	Non-applicable	68 mg/kg	Non-applicable
EC: Non-applicable	Inhalation	23,8 mg/m <sup>3</sup>	7,2 mg/m <sup>3</sup>	23,8 mg/m <sup>3</sup>	2,8 mg/m <sup>3</sup>

PNEC:

Identification				
2-butoxyethanol	STP	463 mg/L	Fresh water	8,8 mg/L
CAS: 111-76-2	Soil	3,13 mg/kg	Marine water	0,88 mg/L
EC: 203-905-0	Intermittent	9,1 mg/L	Sediment (Fresh water)	34,6 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	Non-applicable





# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Ammonia < 5 %, aqueous solution	STP	Non-applicable	Fresh water	0,0011 mg/L
CAS: 1336-21-6	Soil	Non-applicable	Marine water	0,0011 mg/L
EC: Non-applicable	Intermittent	0,0068 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

### 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract	Filter mask for gases and vapours		EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

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	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

### D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face	Face shield	CAT II	EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) Emergency measure Standards Emergency measure Standards **@**+ ANSI Z358-1 DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 ISO 3864-1:2011, ISO 3864-4:2011 Eyewash stations Emergency shower **Environmental exposure controls:** In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics: V.O.C. (Supply): 1,18 % weight V.O.C. density at 20 °C: 12,39 kg/m<sup>3</sup> (12,39 g/L) Average carbon number: 8,8 Average molecular weight: 119,96 g/mol

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties: For complete information see the product datasheet. **Appearance:** Physical state at 20 °C: Liquid Appearance: Not available Colour: Not available Odour: Not available Odour threshold: Non-applicable \* Volatility: Boiling point at atmospheric pressure: 102 °C Vapour pressure at 20 °C: 2338 Pa Vapour pressure at 50 °C: 12321,31 Pa (12,32 kPa) Evaporation rate at 20 °C: Non-applicable \* **Product description:** Density at 20 °C: 1053 kg/m<sup>3</sup> Relative density at 20 °C: 1,053 Dynamic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: Non-applicable \* Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \* Explosive properties: Non-applicable \* \*Not relevant due to the nature of the product, not providing information property of its hazards.





SECT	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)					
	Oxidising properties:	Non-applicable *				
	Flammability:					
	Flash Point:	Non Flammable (>60 °C)				
	Flammability (solid, gas):	Non-applicable *				
	Autoignition temperature:	238 °C				
	Lower flammability limit:	Non-applicable *				
	Upper flammability limit:	Non-applicable *				
	Explosive:					
	Lower explosive limit:	Non-applicable *				
	Upper explosive limit:	Non-applicable *				
9.2	Other information:					
	Surface tension at 20 °C:	Non-applicable *				
	Refraction index:	Non-applicable *				
	*Not relevant due to the nature of the product, not providing infor	mation property of its hazards.				

# SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

## 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

### **10.3** Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### **10.4** Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

## 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

## 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION \*\*

### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

## Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):

\*\* Changes with regards to the previous version





# SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - IARC: 2-butoxyethanol (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Skin: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

### Specific toxicology information on the substances:

Identification	A	cute toxicity	Genus
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LD50 oral	>2000 mg/kg	
CAS: 64742-82-1	LD50 dermal	>2000 mg/kg	
EC: 919-446-0	LC50 inhalation	>20 mg/L (4 h)	
2-butoxyethanol	LD50 oral	1414 mg/kg	Rat
CAS: 111-76-2	LD50 dermal	1060 mg/kg	Rabbit
EC: 203-905-0	LC50 inhalation	11 mg/L (4 h)	Rat

\*\* Changes with regards to the previous version

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Revised: 09/12/2019 Version: 3 (Replaced 2)





# SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

Identification	Acut	e toxicity	Genus
Ammonia < 5 %, aqueous solution	LD50 oral	>2000 mg/kg	
CAS: 1336-21-6	LD50 dermal	>2000 mg/kg	
EC: Non-applicable	LC50 inhalation	>20 mg/L	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	LD50 oral	100 mg/kg	Rat
CAS: 55965-84-9	LD50 dermal	300 mg/kg	Rat
EC: Non-applicable	LC50 inhalation	Non-applicable	

\*\* Changes with regards to the previous version

# SECTION 12: ECOLOGICAL INFORMATION \*\*

The experimental information related to the eco-toxicological properties of the product itself is not available

## 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 64742-82-1	EC50	1 - 10 mg/L		Crustacean
EC: 919-446-0	EC50	1 - 10 mg/L		Algae
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 111-76-2	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-905-0	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Ammonia < 5 %, aqueous solution	LC50	0.89 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1336-21-6	EC50	101 mg/L (48 h)	Daphnia magna	Crustacean
EC: Non-applicable	EC50	Non-applicable		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2- methyl-2H-isothiazol-3-one (3:1)	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 55965-84-9	EC50	0.1 - 1 mg/L		Crustacean
EC: Non-applicable	EC50	0.1 - 1 mg/L		Algae

### 12.2 Persistence and degradability:

Identification	Degra	adability	Biodegradab	ility
2-butoxyethanol	BOD5	0.71 g O2/g	Concentration	100 mg/L
CAS: 111-76-2	COD	2.2 g O2/g	Period	14 days
EC: 203-905-0	BOD5/COD	0.32	% Biodegradable	96 %

## **12.3** Bioaccumulative potential:

Identification	Bioaccur	nulation potential
2-butoxyethanol	BCF	3
CAS: 111-76-2	Pow Log	0.83
EC: 203-905-0	Potential	Low
Ammonia < 5 %, aqueous solution	BCF	
CAS: 1336-21-6	Pow Log	-0.64
EC: Non-applicable	Potential	

## 12.4 Mobility in soil:

Identification	Absorpti	on/desorption	Volati	ility
2-butoxyethanol	Кос	8	Henry	1,621E-1 Pa·m <sup>3</sup> /mol
CAS: 111-76-2	Conclusion	Very High	Dry soil	No
EC: 203-905-0	Surface tension	2,729E-2 N/m (25 °C)	Moist soil	Yes

# **12.5** Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

### 12.6 Other adverse effects:

Not described

\*\* Changes with regards to the previous version





# SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

## Type of waste (Regulation (EU) No 1357/2014):

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

## **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

## Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7		Non-applicable
	to Annex II of Marpol and	
_	the IBC Code:	
Transpo	rt of dangerous goods by sea:	
With rega	ard to IMDG 38-16:	
14.1	UN number:	Non-applicable
14.1 14.2		Non-applicable Non-applicable
	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
14.2 14.3 14.4	UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards:	Non-applicable Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards:	Non-applicable Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable Non-applicable Non-applicable No Non-applicable see section 9
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according	Non-applicable Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable
14.2 14.3 14.4 14.5 14.6	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and	Non-applicable Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.2 14.3 14.4 14.5 14.6 14.7	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according	Non-applicable Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable

Revised: 09/12/2019

Version: 3 (Replaced 2)





## SECTION 14: TRANSPORT INFORMATION (continued)

With regard to IATA/ICAO 2019:

- 14.1 UN number:
- 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable Non-applicable Labels:
- 14.4 Packing group:
- 14.5 Environmental hazards:
- No 14.6 Special precautions for user
- Physico-Chemical properties: 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:
- see section 9 Non-applicable

Non-applicable

Non-applicable

## SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains (ethylenedioxy)dimethanol, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3 -one (3:1) (Product-type 2, 4, 6, 11, 12, 13)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

### Seveso III:

### Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Shall not be used in:

-ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

# Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION \*\*

# Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

\*\* Changes with regards to the previous version





ION	16: OTHER INFORMATION ** (continued)
COM	POSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):
• 1	lew declared substances
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)
	2-butoxyethanol (111-76-2)
	Ammonia < 5 %, aqueous solution (1336-21-6)
	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9) Removed substances
	Kerosine (petroleum), hydrodesulfurized (23 °C < FP < 60 °C) (64742-81-0)
Subo	tances that contribute to the classification (SECTION 2):
	lew declared substances
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)
CLP	Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):
	Pictograms
	lazard statements
	Precautionary statements
	Supplementary information
	ts of the legislative phrases mentioned in section 2:
	3: May cause damage to organs through prolonged or repeated exposure
	ts of the legislative phrases mentioned in section 3:
	phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the
	idual components which appear in section 3
	Regulation (EC) No 1272/2008:
	e Tox. 2: H310+H330 - Fatal in contact with skin or if inhaled
	e Tox. 3: H301 - Toxic if swallowed e Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
	atic Acute 1: H400 - Very toxic to aquatic life
	atic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
	atic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
	Tox. 1: H304 - May be fatal if swallowed and enters airways
	Dam. 1: H318 - Causes serious eye damage
	Irrit. 2: H319 - Causes serious eye irritation
	n. Liq. 3: H226 - Flammable liquid and vapour
	Corr. 1C: H314 - Causes severe skin burns and eye damage
	Irrit. 2: H315 - Causes skin irritation Sens. 1A: H317 - May cause an allergic skin reaction
	T RE 1: H372 - Causes damage to organs through prolonged or repeated exposure
	T SE 3: H336 - May cause drowsiness or dizziness
	sification procedure:
	T RE 2: Calculation method
	ice related to training:
	mal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their
	prehension and interpretation of this safety data sheet, as well as the label on the product.
	cipal bibliographical sources:
http:	//echa.europa.eu
	//eur-lex.europa.eu
Abb	reviations and acronyms:
	: European agreement concerning the international carriage of dangerous goods by road
	G: International maritime dangerous goods code
	: International Air Transport Association
	2: International Civil Aviation Organisation
	: Chemical Oxygen Demand
BOD	5: 5-day biochemical oxygen demand
	Bioconcentration factor D: Lethal Dose 50
	): Lethal Dose 50 ): Lethal Concentration 50
	): Effective concentration 50
	POW: Octanol-water partition coefficient
	Partition coefficient of organic carbon

\*\* Changes with regards to the previous version





The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.