NEUCE O FUTURO DA TINTA

N-Cril WB 208 - Esmalte Ignífugo Aquoso
Code: 02790500

Version: 3 Revision: 11/10/2019 Previous revision: 06/02/2019 Date of printing: 11/10/2019

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

1.1 PRODUCT IDENTIFIER: N-Cril WB 208 - Esmalte Ignífugo Aquoso
Code: 02790500

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
Intended uses (main technical functions): [X] Industrial [X] Professional [_] Consumers
Esmalte aquoso para pintura de paredes, metal e madeira.
 # Sectors of use:
 # Industrial manufacturing (SU3).
 # Professional uses (SU22).
Uses advised against:
 # This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'.
Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:
 # Not restricted.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
NEUCE - Indústria de Tintas, S.A.
Rua Francisco Rocha - Aptdo. 4514 - 3700-892 - Romariz SJM (Portugal)
Phone: +351 256 840040 - Fax: +351 256 840049
E-mail address of the person responsible for the Safety Data Sheet:
e-mail: geral@neuce.pt

1.4 EMERGENCY TELEPHONE NUMBER: +351 256 840041 (9:00-18:30 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

 # Classification in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP):
Not classified

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
Physicochemical: Not classified	Aquatic Chronic 3:H412 c)	Cat.3	-	-	-
Human health: Not classified					
Environment:					

Full text of hazard statements mentioned is indicated in section 16.

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

2.2 LABEL ELEMENTS:
 # This product does not require pictograms, in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP)
Hazard statements:
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:
P102 Keep out of reach of children.
P273-P501a Avoid release to the environment. Dispose of contents/container in accordance with local regulations.
Supplementary statements:
EUH208 Contains mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1). May produce an allergic reaction.
Substances that contribute to classification:
None.

2.3 OTHER HAZARDS:
Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
Other physicochemical hazards: *# No other relevant adverse effects are known.*
Other adverse human health effects: *# Prolonged exposure to vapours may produce transient drowsiness. Prolonged contact may cause skin dryness.*
Other negative environmental effects: *# Does not contain substances that fulfil the PBT/vPvB criteria.*

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES :
Not applicable (mixture).

3.2 MIXTURES:
 # This product is a mixture.
Chemical description:
Solution of acrylic polymer (ea/maa) in aqueous media.

HAZARDOUS INGREDIENTS:
Substances taking part in a percentage higher than the exemption limit:

1 < 2 % 	Butylglycol CAS: 111-76-2 , EC: 203-905-0 REACH: 01-2119475108-36 CLP: Warning: Acute Tox. (inh.) 4:H332 | Acute Tox. (skin) 4:H312 | Acute Tox. (oral) 4:H302 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319		Index No. 603-014-00-0 < REACH / CLP00
< 0,1 % 	Terbutryne CAS: 886-50-0 , EC: 212-950-5 REACH: Exempt (biocide) CLP: Warning: Acute Tox. (oral) 4:H302 | Aquatic Acute 1:H400 (M=10) | Aquatic Chronic 1:H410 (M=10)		Autoclassified
< 0,020 % 	3-iodo-2-propynyl butylcarbamate CAS: 55406-53-6 , EC: 259-627-5 REACH: Exempt (biocide) CLP: Danger: Acute Tox. (inh.) 3:H331 | Acute Tox. (oral) 4:H302 | Eye Dam. 1:H318 | Skin Sens. 1:H317 | STOT RE 1: H372i | Aquatic Acute 1:H400 (M=10) | Aquatic Chronic 1:H410 (M=1)		Index No. 616-212-00-7 < ATP06
< 0,0015 % 	Reaction mass of 5-chloro-2-methyl-2H-isothiazolin-3-one [EC 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC 220-239-6] (3:1) CAS: 55965-84-9 , List No. 611-341-5 REACH: Exempt (biocide) CLP: Danger: Acute Tox. (inh.) 2:H330 | Acute Tox. (skin) 2:H310 | Acute Tox. (oral) 3:H301 | Skin Corr. 1C:H314 | Eye Dam. 1:H318 | Skin Sens. 1A:H317 | Aquatic Acute 1:H400 (M=10) | Aquatic Chronic 1:H410 (M=10) | EUH071	(Note B)	Index No. 613-167-00-5 < ATP13

Impurities:
 # Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:
None

Reference to other sections:
For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
 # List updated by ECHA on 15/01/2019.
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:
None
Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:
None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:
Does not contain substances that fulfil the PBT/vPvB criteria.

SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES:

 # Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	*# Usually produces no symptoms.*	*# Should there be any symptoms, transfer the person affected to the open air.*
Skin:	*# Usually produces no symptoms.*	*# Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.*
Eyes:	*# Usually produces no symptoms.*	*# Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.*
Ingestion:	*# If swallowed in high doses, may cause gastrointestinal disturbances.*	*# If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.*

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
The main symptoms and effects are indicated in sections 4.1 and 11.1

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Notes to physician: *# Treatment should be directed at the control of symptoms and the clinical condition of the patient.*
Antidotes and contraindications: *# Specific antidote not known.*

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:
 # In case of fire in the surroundings, all extinguishing agents are allowed.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
 # As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 ADVICE FOR FIREFIGHTERS:
Special protective equipment: *# Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.*
Other recommendations: *# Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.*

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
 # Avoid direct contact with this product.

6.2 ENVIRONMENTAL PRECAUTIONS:
 # Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
 # Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc..). Avoid use of solvents. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS:
For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

7.1

PRECAUTIONS FOR SAFE HANDLING:
 # Comply with the existing legislation on health and safety at work.
General recommendations:
 # Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
 # The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres.
Recommendations for the prevention of toxicological risks:
 # Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
 # Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
 # Forbid the entry to unauthorized persons. Keep out of reach of children. Keep away from sources of heat. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of storage	:	*# According to current legislation.*
Maximum storage period	:	*# 12. months*
Temperature interval	:	*# min: 5. ºC, max: 35. ºC (recommended).*

Incompatible materials:
 # Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.
Type of packaging:
 # According to current legislation.
Limit quantity (Seveso III): *# Directive 2012/18/EU:*
Not applicable (the classification criteria are not met).

7.3 SPECIFIC END USES:
 # For the use of this product do not exist particular recommendations apart from that already indicated.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:
 # If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assesing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2018	Year	TLV-TWA ppm	TLV-TWA mg/m3	TLV-STEL ppm	TLV-STEL mg/m3	Remarks
Butylglycol	1996	20.	98.	-	-	A3 , BEI
Terbutryne		-	1.0	-	-	Recommended
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)		-	0.080	-	0.23	Recommended

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.
A3 - Carcinogenic in animals.
BEI - Biological exposure index (biological monitoring).

BIOLOGICAL LIMIT VALUES:
This preparation contains the following substances that have established a biological limit value:
- *# 2-butoxyethanol (2006): Biological determinant: butoxyacetic acid in urine, BEI: 200 mg/g creatinine, Sampling time: end of shift (2), with hydrolisis (9).*
 # (2) When the end of the exposition not coincide with the end of the working day, the sample will be taken as soon as possible after the real exposition ceases.
 # (9) It means that the metabolite has to be determined after hydrolising the sample.

DERIVED NO-EFFECT LEVEL (DNEL):
Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic:	DNEL Inhalation mg/m3		DNEL Cutaneous mg/kg bw/d		DNEL Oral mg/kg bw/d	
Butylglycol	1091. (a)	98.0 (c)	89.0 (a)	125. (c)	- (a)	- (c)
Terbutryne	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
3-iodo-2-propynyl butylcarbamate	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)

Derived no-effect level, workers: - Local effects, acute and chronic:	DNEL Inhalation mg/m3		DNEL Cutaneous mg/cm2		DNEL Eyes mg/cm2	
Butylglycol	246. (a)	s/r (c)	m/r (a)	s/r (c)	m/r (a)	- (c)
Terbutryne	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
3-iodo-2-propynyl butylcarbamate	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)

Derived no-effect level, general population:
Not applicable (product for professional or industrial use).

(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.
(-) - DNEL not available (without data of registration REACH).
s/r - DNEL not derived (not identified hazard).
m/r - DNEL not derived (medium hazard).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release:	PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
Butylglycol	8.80	0.880	9.10
Terbutryne	-	-	-
3-iodo-2-propynyl butylcarbamate	-	-	-
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	-	-	-
- Wastewater treatment plants (STP) and sediments in fresh- and marine water:	PNEC STP mg/l	PNEC Sediments mg/kg dw/d	PNEC Sediments mg/kg dw/d
Butylglycol	463.	34.6	3.46
Terbutryne	-	-	-
3-iodo-2-propynyl butylcarbamate	-	-	-
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	-	-	-
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans:	PNEC Air mg/m3	PNEC Soil mg/kg dw/d	PNEC Oral mg/kg dw/d
Butylglycol	s/r	2.33	20.0
Terbutryne	-	-	-
3-iodo-2-propynyl butylcarbamate	-	-	-
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	-	-	-

(-) - PNEC not available (without data of registration REACH).
s/r - PNEC not derived (not identified hazard).

8.2 EXPOSURE CONTROLS:

ENGINEERING MEASURES:

 # Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system:
Protection of eyes and face: *# It is recommended to install water taps, sources or eyewash bottles with clean water close to the working area.*
Protection of hands and skin: *# It is recommended to install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.*

OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:
As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:	*# No.*
Safety goggles:  ✓	*# Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.*
Face shield:	*# No.*
Gloves:  ✓	*# Gloves resistant against chemicals (EN374). When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of >240 min.When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time >30 min.The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account.The gloves should be immediately replaced when any sign of degradation is noted.*
Boots:	*# No.*
Apron:	*# No.*
Clothing:	*# No.*

Thermal hazards:
 # Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:
 # Avoid any spillage in the environment.

Spills on the soil: *# Prevent contamination of soil.*

Spills in water: *# Do not allow to escape into drains, sewers or water courses.*
- Water Management Act: *# This product contains the following substances included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU: Terbutrina.*

Emissions to the atmosphere: *# Not applicable.*

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state	:	# *Liquid.*		
- Colour	:	# *Diverse.*		
- Odour	:	Characteristic		
- Odour threshold	:	# *Not available (mixture).*		
pH-value				
- pH	:	# *8.5 ± 1.*	# *at 20ºC*	
Change of state				
- Melting point	:	# *Not available*		
- Initial boiling point	:	# *> 100**	# *ºC at 760 mmHg*	
Density				
- Vapour density	:	# *< 1 (lighter than air).*		
- Relative density	:	# *1.22*	# *at 20/4ºC*	Relative water
Stability				
- Decomposition temperature	:	# *177**	# *ºC*	
Viscosity:				
- Viscosity (Krebs-Stormer)	:	# *86. ± 13.*	# *KU 25ºC*	
Volatility:				
- Evaporation rate	:	# *40.4**	nBuAc=100 25ºC	Relative
- Vapour pressure	:	# *17.4**	# *mmHg at 20ºC*	
- Vapour pressure	:	# *12.2**	kPa at 50ºC	
Solubility(ies)				
- Solubility in water:	:	# *Miscible*		
- Liposolubility	:	# *Not available (mixture untested).*		
- Partition coefficient: n-octanol/water	:	# *Not applicable (mixture).*		
Flammability:				
- Flash point	:	# *Not flammable*		
- Autoignition temperature	:	# *Not applicable (do not sustain combustion).*		

Explosive properties:
 # Not applicable.
Oxidizing properties:
 # Not classified as oxidizing product.

*Estimated values based on the substances composing the mixture.

9.2 OTHER INFORMATION:

- Heat of combustion	:	# *2497**	Kcal/kg	
- Solids	:	# *41.*	# *% Volume*	

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:
Corrosivity to metals: *# It is not corrosive to metals.*
Pyrophorical properties: *# It is not pyrophoric.*

10.2 CHEMICAL STABILITY:
 # Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
 # Possible dangerous reaction with oxidizing agents, acids.

10.4 CONDITIONS TO AVOID:
Heat: *# Keep away from sources of heat.*
Light: *# If possible, avoid direct contact with sunlight.*
Air: *# The product is not affected by exposure to air, but should not be left the containers open.*
Pressure: *# Not relevant.*
Shock: *# The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.*

10.5 INCOMPATIBLE MATERIALS:
 # Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
 # As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2018/1480 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients :	LD50 (OECD 401) mg/kg bw oral	LD50 (OECD 402) mg/kg bw cutaneous	LC50 (OECD 403) mg/m3·4h inhalation
Butylglycol	1300. Rat	1400. Rabbit	> 2560. Rat
Terbutryne	1470. Rat	> 2000. Rabbit	> 2200. Rat
3-iodo-2-propynyl butylcarbamate	1470. Rat	> 2000. Rat	> 6890. Rat
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	75. Rat	140. Rat	> 1230. Rat

Estimates of acute toxicity (ATE) for individual ingredients :	ATE mg/kg bw oral	ATE mg/kg bw cutaneous	ATE mg/m3·4h inhalation
Butylglycol	1300.	1400.	11000.* Vapours
Terbutryne	1470.	-	-
3-iodo-2-propynyl butylcarbamate	1470.	-	500.* Dust
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	75.	140.	50.* Dust

(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.
(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

No observed adverse effect level
Not available
Lowest observed adverse effect level
Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
Inhalation: **Not classified**	ATE > 20000 mg/m3	-	*# Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).*	GHS/CLP 3.1.3.6.
Skin: **Not classified**	ATE > 2000 mg/kg bw	-	*# Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).*	GHS/CLP 3.1.3.6.
Eyes: **Not classified**	Not available	-	*# Not classified as a product with acute toxicity by eye contact (lack of data).*	GHS/CLP 1.2.5.
Ingestion: **Not classified**	ATE > 2000 mg/kg bw	-	*# Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).*	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respiratory corrosion/irritation: Not classified	-	-	*# Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).*	GHS/CLP 1.2.6. 3.8.3.4.
Skin corrosion/irritation: Not classified	-	-	*# Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).*	GHS/CLP 3.2.3.3.
Serious eye damage/irritation: Not classified	-	-	*# Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).*	GHS/CLP 3.3.3.3.
Respiratory sensitisation: Not classified	-	-	*# Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).*	GHS/CLP 3.4.3.3.
Skin sensitisation: Not classified	-	-	*# Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).*	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Aspiration hazard: Not classified	-	-	*# Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).*	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):
 # Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:
Carcinogenic effects: *# It is not considered as a carcinogenic product.*
Genotoxicity: *# It is not considered as a mutagenic product.*
Toxicity for reproduction: *# Does not harm fertility. Does not harm the unborn child.*
Effects via lactation: *# Not classified as a hazardous product for children breast-fed.*

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:
Routes of exposure: *# Not available.*
Short-term exposure: *# May irritate the eyes and skin.*
Long-term or repeated exposure: *# Not available.*

INTERACTIVE EFFECTS:
 # Not available.

INFORMATIONABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:
Dermal absorption: *# Not available.*
Basic toxicokinetics: *# Not available.*

ADDITIONAL INFORMATION:
This preparation contains glycols that are readily absorbed through the skin and may cause harmful effects on the blood.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for this mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2018/1480 (CLP).

12.1 TOXICITY:

Acute toxicity in aquatic environment for individual ingredients :	LC50 (OECD 203) mg/l-96hours	EC50 (OECD 202) mg/l-48hours	EC50 (OECD 201) mg/l-72hours
Butylglycol	1474. Fishes	1550. Daphnia	911. Algae
Terbutryne	> 1.1 Fishes	> 2.7 Daphnia	0.013 Algae
3-iodo-2-propynyl butylcarbamate	0.067 Fishes	0.16 Daphnia	0.022 Algae
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	0.19 Fishes	0.16 Daphnia	0.018 Algae
No observed effect concentration	**NOEC (OECD 210)** **mg/l-28days**	**NOEC (OECD 211)** **mg/l-21days**	**NOEC (OECD 201)** **mg/l-72hours**
Butylglycol	> 100. Fishes	> 100. Daphnia	
Terbutryne		1.3 Daphnia	
3-iodo-2-propynyl butylcarbamate	0.049 Fishes		0.0046 Algae

Lowest observed effect concentration
Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
Acute aquatic toxicity: Not classified	-	*# Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).*	GHS/CLP 4.1.3.5.5.3.
Chronic aquatic toxicity:	Cat.3	*# HARMFUL: Harmful to aquatic life with long lasting effects.*	GHS/CLP 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.
CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

12.2 PERSISTENCE AND DEGRADABILITY:
 # Not available.

Aerobic biodegradation for individual ingredients :	DQO mgO2/g	%DBO/DQO 5 days 14 days 28 days	Biodegradability
Butylglycol	2210.	~ 52. ~ 67. ~ 83.	Easy
Terbutryne		50.	Not easy
3-iodo-2-propynyl butylcarbamate	1148.		Not easy
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)			Inherently

 # Note: Biodegradability data correspond to an average of data from various bibliographic sources.

12.3 BIOACCUMULATIVE POTENTIAL:
 # Not available.

Bioaccumulation for individual ingredients :	log Pow	BCF L/kg	Potential
Butylglycol	0.830	3.2 (calculated)	Not available
Terbutryne	3.74	72. (calculated)	Not available
3-iodo-2-propynyl butylcarbamate	2.81	26. (calculated)	Not available
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	-0.830	3.2 (calculated)	Not available

12.4 MOBILITY IN SOIL:
 # Not available.

Mobility for individual ingredients :	log Koc	Constant of Henry Pa·m3/mol 20ºC	Potential
Butylglycol	0.880	0.081 (calculated)	Not available
Terbutryne	2.80		Not available
3-iodo-2-propynyl butylcarbamate	2.42		Not available
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	-1.22		Not available

12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:
 # Does not contain substances that fulfil the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:
Ozone depletion potential: *# Not available.*
Photochemical ozone creation potential: *# Not available.*
Earth global warming potential: *# Not available.*
Endocrine disrupting potential: *# Not available.*

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: *# Directive 2008/98/EC~Regulation (EU) no. 1357/2014:*
 # Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: *# Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:*
 # Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:
 # Authorised landfill in accordance with local regulations.

SECTION 14 : TRANSPORT INFORMATION

14.1	UN NUMBER: Not applicable
14.2	UN PROPER SHIPPING NAME: Not applicable
14.3	TRANSPORT HAZARD CLASS(ES): Transport by road (ADR 2019) and Transport by rail (RID 2019): Not regulated Transport by sea (IMDG 38-16): Not regulated Transport by air (ICAO/IATA 2018): Not regulated Transport by inland waterways (ADN): *# Not regulated*
14.4	PACKING GROUP: Not regulated
14.5	ENVIRONMENTAL HAZARDS: *# Not applicable.*
14.6	SPECIAL PRECAUTIONS FOR USER: *# Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation.*
14.7	TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE *# Not applicable.*

SECTION 15 : REGULATORY INFORMATION

15.1	EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC: The regulations applicable to this product generally are listed throughout this Safety Data Sheet. Restrictions on manufacture, placing on market and use: See section 1.2 Tactile warning of danger: Not applicable (the classification criteria are not met). Child safety protection: Not applicable (the classification criteria are not met). VOC information on the label: *# Contains VOC max. 35. g/l - The limit value 2004/42/CE-IIA cat. i) for the product ready for use is VOC max. 140. g/l (2010).* OTHER REGULATIONS: Responsabilidade ambiental: A utilização deste produto em Portugal fica sujeita ao regime de responsabilidade ambiental previsto no DL.147/2008. Control of the risks inherent in major accidents (Seveso III): See section 7.2 Other local legislations: *# The receiver should verify the possible existence of local regulations applicable to the chemical.*
15.2	CHEMICAL SAFETY ASSESSMENT: *# A chemical safety assessment has not been carried out for this mixture.*

SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:
Hazard statements according the Regulation (EU) No. 1272/2008~2018/1480 (CLP), Annex III:
H301 Toxic if swallowed. H302 Harmful if swallowed. H310 Fatal in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
Notes related to the identification, classification and labelling of the substances:
Note B : Some substances are placed on the market in aqueous solutions at various concentrations and these solutions require different classification and labelling since the hazards vary at different concentrations.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

 # ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:
 # It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:
 # · European Chemicals Agency: ECHA, http://echa.europa.eu/
 # · Access to European Union Law, http://eur-lex.europa.eu/
· Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
· Threshold Limit Values, (AGCIH, 2017).

 # ABBREVIATIONS AND ACRONYMS:
List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

 # · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
 # · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
 # · CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
 # · EINECS: European Inventory of Existing Commercial Chemical Substances.
 # · ELINCS: European List of Notified Chemical Substances.
 # · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
 # · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
 # · SVHC: Substances of Very High Concern.
 # · PBT: Persistent, bioaccumulable and toxic substances.
 # · vPvB: Very persistent and very bioaccumulable substances.
 # · DNEL: Derived No-Effect Level (REACH).
 # · PNEC: Predicted No-Effect Concentration (REACH).
 # · LD50: Lethal dose, 50 percent.
 # · LC50: Lethal concentration, 50 percent.
 # · UN: United Nations Organisation.
 # · ADR: European agreement concerning the international carriage of dangeous goods by road.
 # · RID: Regulations concerning the international transport of dangeous goods by rail.
 # · IMDG: International Maritime code for Dangerous Goods.
 # · IATA: International Air Transport Association.
 # · ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:
 # Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:	Revision:
Version: 2	06/02/2019
Version: 3	11/10/2019

 # Changes since previous Safety Data Sheet:
 # Legislative, contextual, numerical, methodological and normative changes since the previous version of the present Safety Data Sheet are identified by a red-italic hash (#).