



AQUALUR - Aqueous Acrylic Enamel
Code: 02080500

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

- 1.1 **PRODUCT IDENTIFIER:** AQUALUR - Aqueous Acrylic Enamel
Code: 02080500
- 1.2 **RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:**
Intended uses (main technical functions): Industrial Professional Consumers
Glossy coating for interior walls and ceilings, water-borne.
Sectors of use:
Professional uses (SU22).
Consumer uses (SU21).
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 the 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
<u>Physicochemical:</u> Not classified	Aquatic Chronic 3:H412	c)	Cat.3	-	-
<u>Human health:</u> Not classified					
<u>Environment:</u>					

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:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P273-P501a Avoid release to the environment. Dispose of contents/container in accordance with local regulations.
Supplementary statements:
EUH 208 Contains mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1). May produce an allergic reaction.
EUB174 Contains terbutryne, methyl benzimidazol-2-ylcarbamate, 3-iodo-2-propynyl butylcarbamate to protect the film.
See information supplied by the manufacturer.
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: # Vapours may form with air a mixture potentially flammable or explosive.
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.



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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 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	REACH: 01-2119475108-36	Index No. 603-014-00-0 < REACH / CLP00
< 0,1 % 	Terbutryne CAS: 886-50-0, EC: 212-950-5 CLP: Warning: Acute Tox. (oral) 4:H302 Aquatic Acute 1:H400 (M=10) Aquatic Chronic 1:H410 (M=10)	REACH: Exempt (biocide)	Autoclassified
< 0,020 % 	3-iodo-2-propynyl butylcarbamate CAS: 55406-53-6, EC: 259-627-5 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)	REACH: Exempt (biocide)	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 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	REACH: Exempt (biocide)	(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.



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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
<u>Inhalation:</u>	# Negligible hazard at ambient temperature.	# Should there be any symptoms, transfer the person affected to the open air.
<u>Skin:</u>	# Prolonged contact may cause skin dryness.	# 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.
<u>Eyes:</u>	# Contact with the eyes produces redness and pain.	# Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.
<u>Ingestion:</u>	# 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:

Extinguishing powder or CO₂. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

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:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.

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 non-combustible absorbent materials (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.



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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:
 # Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.
- | | | | | |
|--|---|---|-------------|---------------|
| - Flash point | : | # | 67* | # °C |
| - Autoignition temperature | : | # | 329* | # °C |
| - Upper/lower flammability or explosive limits | : | # | 1.6* - 10.8 | % Volume 25°C |
- 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. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. 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 | : | # | 24. months |
| Temperature interval | : | # | min: 5. °C, max: 35. °C (recommended). |
- Incompatible materials:**
 # Keep away from oxidizing 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 (product for non industrial use).



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- 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 assessing 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		TLV-STEL		Remarks
		ppm	mg/m ³	ppm	mg/m ³	
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 hydrolysis (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 hydrolysing 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 an 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		DNEL Cutaneous		DNEL Oral	
	mg/m ³		mg/kg bw/d		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		DNEL Cutaneous		DNEL Eyes	
	mg/m ³		mg/cm ²		mg/cm ²	
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: - Systemic effects, acute and chronic:	DNEL Inhalation		DNEL Cutaneous		DNEL Oral	
	mg/m ³		mg/kg bw/d		mg/kg bw/d	
Butylglycol	426.	(a) 59.0 (c)	89.0	(a) 75.0 (c)	26.7	(a) 6.30 (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: - Local effects, acute and chronic:	DNEL Inhalation		DNEL Cutaneous		DNEL Eyes	
	mg/m ³		mg/cm ²		mg/cm ²	
Butylglycol	147.	(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)

(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).



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PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms:

- Fresh water, marine water and intermittent release:

Butylglycol

Terbutryne

3-iodo-2-propynyl butylcarbamate

Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC Fresh water

mg/l

8.80

-

-

-

PNEC Marine

mg/l

0.880

-

-

-

PNEC Intermittent

mg/l

9.10

-

-

-

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:

Butylglycol

Terbutryne

3-iodo-2-propynyl butylcarbamate

Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC STP

mg/l

463.

-

-

-

PNEC Sediments

mg/kg dw/d

34.6

-

-

-

PNEC Sediments

mg/kg dw/d

3.46

-

-

-

Predicted no-effect concentration, terrestrial organisms:

- Air, soil and effects for predators and humans:

Butylglycol

Terbutryne

3-iodo-2-propynyl butylcarbamate

Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC Air

mg/m³

s/r

-

-

-

PNEC Soil

mg/kg dw/d

2.33

-

-

-

PNEC Oral

mg/kg dw/d

20.0

-

-

-

(-) - PNEC not available (without data of registration REACH).

s/r - PNEC not derived (not identified hazard).



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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: # Avoid the inhalation of vapours.

Protection of eyes and face: # It is recommended to install water taps or sources 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 designed to protect against liquid splashes, 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. Avoid any release into the atmosphere.

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: # Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.

- VOC (product ready for use*): # It is applicable the Directive 2004/42/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents: PAINTS AND VARNISHES (defined in the Directive 2004/42/EC, Annex I.1): Emission subcategory b) Glossy coating for interior walls and ceilings, water-borne. (VOC max. 100. g/l* starting from 01.01.2010).



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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state : # *Liquid.*
- Colour : # *White.*
- Odour : *Characteristic*
- Odour threshold : # *Not available (mixture).*

pH-value

- pH : # 8 ± 1 # *at 20°C*

Change of state

- Melting point : # *Not available*
- Initial boiling point : # $> 100^*$ # *°C at 760 mmHg*

Density

- Vapour density : # < 1 (*lighter than air*).
- Relative density : # 1.22 ± 0.1 # *at 20/4°C* Relative water

Stability

- Decomposition temperature : # 177^* # *°C*

Viscosity:

- Viscosity (Krebs-Stormer) : # 86 ± 13 # *KU 25°C*

Volatility:

- Evaporation rate : # 40.4^* *nBuAc=100 25°C* Relative
- Vapour pressure : # 17.4^* # *mmHg at 20°C*
- Vapour pressure : # 12.2^* # *kPa at 50°C*

Solubility(ies)

- Solubility in water: : # *Miscible*
- Liposolubility : # *Not available (mixture untested).*
- Partition coefficient: n-octanol/water : # *Not applicable (mixture).*

Flammability:

- Flash point : # 67^* # *°C* # *CLP 2.6.4.3.*
- Upper/lower flammability or explosive limits : # $1.6^* - 10.8$ # *% Volume 25°C*
- Autoignition temperature : # 329^* # *°C*

Explosive properties:

Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.

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 : # 53 # *% Weight*
- VOC (supply) : # 1.9 # *% Weight*
- VOC (supply) : # 35.0 # *g/l*

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 oxidizing 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.



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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 :

Butylglycol
Terbutryne
3-iodo-2-propynyl butylcarbamate
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

LD50 (OECD 401)

mg/kg bw oral
1300. Rat
1470. Rat
1470. Rat
75. Rat

LD50 (OECD 402)

mg/kg bw cutaneous
1400. Rabbit
> 2000. Rabbit
> 2000. Rat
140. Rat

LC50 (OECD 403)

mg/m3-4h inhalation
> 2560. Rat
> 2200. Rat
> 6890. Rat
> 1230. Rat

Estimates of acute toxicity (ATE)

for individual ingredients :

Butylglycol
Terbutryne
3-iodo-2-propynyl butylcarbamate
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

ATE

mg/kg bw oral
1300.
1470.
1470.
75.

ATE

mg/kg bw cutaneous
1400.
-
-
140.

ATE

mg/m3-4h inhalation
11000.* Vapours
-
500.* Dust
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
<u>Inhalation:</u> 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.
<u>Skin:</u> 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.
<u>Eyes:</u> Not classified	Not available	-	# Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
<u>Ingestion:</u> 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
<u>Respiratory corrosion/irritation:</u> 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.
<u>Skin corrosion/irritation:</u> 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.
<u>Serious eye damage/irritation:</u> 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.
<u>Respiratory sensitisation:</u> 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.
<u>Skin sensitisation:</u> 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.



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ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Aspiration hazard:</u> 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: # May be absorbed by inhalation of vapour, through the skin and by ingestion.

Short-term exposure: # Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.

Long-term or repeated exposure: # Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOKINETICS, 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 :

	<u>LC50 (OECD 203)</u> mg/l-96hours	<u>EC50 (OECD 202)</u> mg/l-48hours	<u>EC50 (OECD 201)</u> 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

	<u>NOEC (OECD 210)</u> mg/l-28days	<u>NOEC (OECD 211)</u> mg/l-21days	<u>NOEC (OECD 201)</u> 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
<u>Acute aquatic toxicity:</u> 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.
<u>Chronic aquatic toxicity:</u>	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.



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12.2	<p>PERSISTENCE AND DEGRADABILITY: # Not available.</p>			
	<p><u>Aerobic biodegradation</u> for individual ingredients :</p> <p>Butylglycol Terbutryne 3-iodo-2-propynyl butylcarbamate Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)</p>	<p><u>DOO</u> mgO₂/g</p> <p>2210. 1148.</p>	<p><u>%DBO/DOO</u> 5 days 14 days 28 days ~ 52. ~ 67. ~ 83. 50.</p>	<p><u>Biodegradability</u></p> <p>Easy Not easy Not easy Inherently</p>
	# Note: Biodegradability data correspond to an average of data from various bibliographic sources.			
12.3	<p>BIOACCUMULATIVE POTENTIAL: # Not available.</p>			
	<p><u>Bioaccumulation</u> for individual ingredients :</p> <p>Butylglycol Terbutryne 3-iodo-2-propynyl butylcarbamate Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)</p>	<p><u>log Pow</u></p> <p>0.830 3.74 2.81 -0.830</p>	<p><u>BCF</u> L/kg</p> <p>3.2 (calculated) 72. (calculated) 26. (calculated) 3.2 (calculated)</p>	<p><u>Potential</u></p> <p>Not available Not available Not available Not available</p>
12.4	<p>MOBILITY IN SOIL: # Not available.</p>			
	<p><u>Mobility</u> for individual ingredients :</p> <p>Butylglycol Terbutryne 3-iodo-2-propynyl butylcarbamate Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)</p>	<p><u>log Koc</u></p> <p>0.880 2.80 2.42 -1.22</p>	<p><u>Constant of Henry</u> Pa·m³/mol 20°C</p> <p>0.081 (calculated)</p>	<p><u>Potential</u></p> <p>Not available Not available Not available Not available</p>
12.5	<p>RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006: # Does not contain substances that fulfil the PBT/vPvB criteria.</p>			
12.6	<p>OTHER ADVERSE EFFECTS: <u>Ozone depletion potential:</u> # Not available. <u>Photochemical ozone creation potential:</u> # Not available. <u>Earth global warming potential:</u> # In case of fire or incineration liberates CO₂. <u>Endocrine disrupting potential:</u> # Not available.</p>			
SECTION 13 : DISPOSAL CONSIDERATIONS				
13.1	<p>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.</p> <p><u>Disposal of empty containers:</u> # 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 emptying 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.</p> <p><u>Procedures for neutralising or destroying the product:</u> # Controlled incineration in special facilities for chemical waste, in accordance with local regulations.</p>			



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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 I 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. b) for the product ready for use is VOC max. 100. g/l (2010).

Specific legislation on biocidal products:
It is applicable the Article 58 of Regulation (EU) No. 528/2012~334/2014, concerning the placing on the market and use of biocidal products (treated articles) and the Regulation (EC) No. 1896/2000~1451/2007 on biocidal products. Contains terbutrina, benzimidazole-2-ilcarbamato de metilo, butilcarbamato de 3-iodo-2-propinilo to protect the film. See information supplied by the manufacturer.

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.



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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. H373 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, (ACGIH, 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 regulation on Classification, Labelling and 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.
- # · VOC: Volatile Organic Compounds.
- # · 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 dangerous goods by road.
- # · RID: Regulations concerning the international transport of dangerous 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:

Version: 11	<u>Revision:</u> 05/06/2018
Version: 12	19/09/2019

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 (#).

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.