



LIMPIADOR MACY-CLEAN  
Code: 60422



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

1.1 PRODUCT IDENTIFIER: LIMPIADOR MACY-CLEAN  
Code: 60422

1.2 RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:  
Intended uses (main technical functions): Cleaner. [ ] Industrial [X] Professional [X] Consumers  
Sectors of use:  
 # Consumer uses (SU21).  
Uses advised against:  
 # This product is not recommended for any use or sector of use industrial, professional or consume 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:  
 PINTURAS MACY, S.A.  
 Ctra. Nacional 301, Km. 212,8 - E-02630 - La Roda (Albacete)  
 Phone: +34 967 440712 - Fax: +34 967 442819  
E-mail address of the person responsible for the safety data sheet:  
 e-mail: laborato102@pinturas-macy.com

1.4 EMERGENCY TELEPHONE NUMBER: +34 967 440712 (8:00-13:00 / 16:00-20:00 h.) (working hours)

**SECTION 2 : HAZARDS IDENTIFICATION**

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:  
 # Classification in accordance with Regulation (EC) No. 1272/2008~605/2014 (CLP):  
 DANGER: Skin Irrit. 2:H315 | Eye Dam. 1:H318 | Aquatic Acute 1:H400 | Aquatic Chronic 2:H411

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
<u>Physicochemical:</u> Not classified	Skin Irrit. 2:H315 Eye Dam. 1:H318 Aquatic Acute 1:H400 Aquatic Chronic 2:H411	Cat.2	Skin	Skin	Irritation
<u>Human health:</u> 		Cat.1	Eyes	Eyes	Serious lesions
		Cat.1	-	-	-
<u>Environment:</u> 	Cat.2	-	-	-	

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 is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008~605/2014 (CLP)  
Hazard statements:  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.  
Precautionary statements:  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
 P264a Wash the hands thoroughly after handling.  
 P280F Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.  
 P303+P361+P353-P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P273-P391-P501a Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local regulations.  
Supplementary statements:  
 EUH208 Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.  
 EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).  
 EUD011 Contains chlorine-based bleaching agents 5-15 %, DIDECYLDIMONIUM CHLORIDE, 4,5-dichloro-2-octyl-2H-isothiazol-3-one, IODOPROPYNYL BUTYL CARBAMATE. Do not swallow.  
Hazardous ingredients:  
 Sodium hypochlorite (as active chlorine) 4%

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: No other relevant adverse effects are known.  
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 chemicals in aqueous media.

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

2,5 < 5 % 	<p><b>Sodium hypochlorite (as active chlorine)</b> CAS: 7681-52-9 , EC: 231-668-3 CLP: Danger: Met. Corr. 1:H290   Skin Corr. 1B:H314   Eye Dam. 1:H318   STOT SE (irrit.) (Note B) 3:H335   Aquatic Acute 1:H400   Aquatic Chronic 1:H410   EUH031</p>	Index No. 017-011-00-1 < Autoclificada
< 0,1 % 	<p><b>Didecyldimethylammonium chloride</b> CAS: 7173-51-5 , EC: 230-525-2 CLP: Danger: Acute Tox. (oral) 4:H302   Skin Corr. 1B:H314   Aquatic Acute 1:H400   Aquatic Chronic 2:H411</p>	Index No. 612-131-00-6 < Autoclificada
< 0,025 % 	<p><b>4,5-dichloro-2-octyl-2H-isothiazol-3-one</b> CAS: 64359-81-5 , EC: 264-843-8 REACH: Biocide CLP: Danger: Acute Tox. (inh.) 2:H330   Acute Tox. (skin) 4:H312   Acute Tox. (oral) 4:H302   Skin Corr. 1C:H314   Eye Dam. 1:H318   Skin Sens. 1A:H317   STOT SE (irrit.) 3:H335   Aquatic Acute 1:H400</p>	Autoclificada
< 0,01 % 	<p><b>3-iodo-2-propynyl butylcarbamate</b> CAS: 55406-53-6 , EC: 259-627-5 REACH: 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   Aquatic Chronic 1:H410</p>	Index No. 616-212-00-7 < ATP06

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 20/06/2016.  
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 fulfill the PBT/vPvB criteria.



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**SECTION 4 : FIRST AID MEASURES**

4.1	<b>DESCRIPTION OF FIRST-AID MEASURES:</b>	
		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. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.
	<b>Route of exposure</b>	<b>Symptoms and effects, acute and delayed</b>
	<u>Inhalation:</u>	Normally does not produce symptoms.
	<u>Skin:</u> 	Skin contact causes redness and pain.
	<u>Eyes:</u> 	Contact with the eyes produces redness, pain and serious burns.
	<u>Ingestion:</u>	If swallowed, may cause irritation of the mouth, throat and esophagus.
		<b>Description of first-aid measures</b>
		Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
		Remove immediately 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.
		Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. Call a physician immediately.
		If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.
4.2	<b>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:</b> The main symptoms and effects are indicated in sections 4.1 and 11	
4.3	<b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:</b> <u>Notes to physician:</u> Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent). <u>Antidotes and contraindications:</u> Specific antidote not known.	

**SECTION 5 : FIRE-FIGHTING MEASURES**

5.1	<b>EXTINGUISHING MEDIA:</b> In the case of fire in the surroundings, all extinguishing agents are allowed.
5.2	<b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:</b> As consequence of combustion or thermal decomposition, hazardous products may be produced. Exposure to combustion or decomposition products may be a hazard to health.
5.3	<b>ADVICE FOR FIREFIGHTERS:</b> <u>Special protective equipment:</u> 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 not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents. <u>Other recommendations:</u> 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	<b>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:</b> Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.
6.2	<b>ENVIRONMENTAL PRECAUTIONS:</b> 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	<b>METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:</b> 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	<b>REFERENCE TO OTHER SECTIONS:</b> 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 subsequent waste disposal, follow the recommendations in section 13.



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**SECTION 7 : HANDLING AND STORAGE**

7.1	<p><b>PRECAUTIONS FOR SAFE HANDLING:</b> Comply with the existing legislation on health and safety at work. <b>General recommendations:</b> Avoid any type of leakage or escape. Keep the container tightly closed. <b>Recommendations for the prevention of fire and explosion risks:</b> # <i>Not applicable.</i> <b>Recommendations for the prevention of toxicological risks:</b> 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. <b>Recommendations for the prevention of environmental contamination:</b> Product dangerous to the environment. 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.</p>
7.2	<p><b>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:</b> Forbid the entry to unauthorized persons. Keep out of reach of children. Keep away from sources of heat. 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. <b>Class of store</b> : According to current legislation. <b>Maximum storage period</b> : # <i>24 months</i> <b>Temperature interval</b> : min: 5. °C, max: 30. °C (recommended). <b>Incompatible materials:</b> Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. <b>Type of packaging:</b> According to current legislation. <b>Limit quantity (Seveso III):</b> # <i>Directive 2012/18/EU:</i> # <i>Umbral inferior: 100 toneladas , Umbral superior: 200 toneladas</i></p>
7.3	<p><b>SPECIFIC END USES:</b> For the use of this product do not exist particular recommendations apart from that already indicated.</p>



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**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 2014	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m3	ppm	mg/m3	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	2007	-	0.060	-	0.10	Internal value
Chlorine		-	0.5	-	1.5	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not established

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.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic: 4,5-dichloro-2-octyl-2H-isothiazol-3-one 3-iodo-2-propynyl butylcarbamate	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/kg bw/d - (a) - (c) - (a) - (c)	<u>DNEL Oral</u> mg/kg bw/d - (a) - (c) - (a) - (c)
	<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic: 4,5-dichloro-2-octyl-2H-isothiazol-3-one 3-iodo-2-propynyl butylcarbamate	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/cm2 - (a) - (c) - (a) - (c)
<u>Derived no-effect level, general population:</u> - Systemic effects, acute and chronic: 4,5-dichloro-2-octyl-2H-isothiazol-3-one 3-iodo-2-propynyl butylcarbamate	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/kg bw/d - (a) - (c) - (a) - (c)	<u>DNEL Oral</u> mg/kg bw/d - (a) - (c) - (a) - (c)
	<u>Derived no-effect level, general population:</u> - Local effects, acute and chronic: 4,5-dichloro-2-octyl-2H-isothiazol-3-one 3-iodo-2-propynyl butylcarbamate	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/cm2 - (a) - (c) - (a) - (c)

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

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermitent release: 4,5-dichloro-2-octyl-2H-isothiazol-3-one 3-iodo-2-propynyl butylcarbamate	<u>PNEC Fresh water</u> mg/l - -	<u>PNEC Marine</u> mg/l - -	<u>PNEC Intermittent</u> mg/l - -
	- Wastewater treatment plants (STP) and sediments in fresh- and marine water: 4,5-dichloro-2-octyl-2H-isothiazol-3-one 3-iodo-2-propynyl butylcarbamate	<u>PNEC STP</u> mg/l - -	<u>PNEC Sediments</u> mg/kg dry weight - -
<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans: 4,5-dichloro-2-octyl-2H-isothiazol-3-one 3-iodo-2-propynyl butylcarbamate	<u>PNEC Air</u> mg/m3 - -	<u>PNEC Soil</u> mg/kg dry weight - -	<u>PNEC Oral</u> mg/kg bw/d - -

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



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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. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system: Avoid the inhalation of vapours. Avoid the inhalation of particles or spray mist arising from the application of this preparation.

Protection of eyes and face: Dispose of water taps or sources with clean water close to the working area.

Protection of hands and skin: It is recommended to dispose of 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.

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

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 EC 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:



Suitable combined filter mask for gases, vapours and particles (EN14387/EN143). Classe 1: low capacity up to 1000 ppm, Classe 2: medium capacity up to 5000 ppm, Classe 3: high capacity up to 10000 ppm. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume. If mask use is not sufficient, when operators, whether spraying or not, are inside the spraybooth, and ventilation is unlikely to be sufficient to constantly control particulates and solvent vapour in all cases, in such circumstances they should wear a compressed air-fed respiratory protective equipment (EN137) during the spraying process and until such a time as the particulates and solvent vapour concentration has fallen below the exposure limits.

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 it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, 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, we must have in mind the manual of instructions from manufacturers of gloves. 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: Very toxic to aquatic organisms. Do not allow to escape into drains, sewers or water courses.

- Water Control Act: # Este producto no contiene ninguna sustancia incluida en la lista de sustancias prioritarias en el ámbito de la política de aguas, según la Directiva 2000/60/CE~2013/39/UE.

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



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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

9.1	<p><b>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</b></p> <p><u>Appearance</u>                      - Physical state : Liquid.                      - Colour : Yellowish .                      - Odour : Characteristic.                      - Odour threshold : Not available (mixture).</p> <p><u>pH-value</u>                      - pH : 13. at 20°C</p> <p><u>Change of state</u>                      - Melting point : Not available                      - Initial boiling point : Not available</p> <p><u>Density</u>                      - Relative density : # 1.039* at 20/4°C <span style="float: right;">Relative water</span></p> <p><u>Stability</u>                      - Decomposition temperature : Not applicable</p> <p><u>Viscosity:</u>                      - Dynamic viscosity : # 140. cps 20°C                      - Kinematic viscosity : # 47. mm2/s at 40°C                      - Viscosity (flow time) : 40. ± 10. sec.FC4 20°C</p> <p><u>Volatility:</u>                      - Vapour pressure : Not available</p> <p><u>Solubility(ies)</u>                      - Solubility in water : Miscible                      - Liposolubility : Not applicable (inorganic product).</p> <p><u>Flammability:</u>                      - Flash point : # Inflammable* °C                      - Autoignition temperature : Not applicable (do not support combustion).</p> <p><u>Explosive properties:</u>                      Not available.</p> <p><u>Oxidizing properties:</u>                      Not classified as oxidizing product.</p> <p>*Estimated values based on the substances composing the mixture.</p>
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9.2	<p><b>OTHER INFORMATION:</b></p> <p>- Heat of combustion : # 2* Kcal/kg                      - Active chlorine : 4.19 % Cl                      - VOC (supply) : # 0.2 g/l</p> <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>
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**SECTION 10 : STABILITY AND REACTIVITY**

10.1	<p><b>REACTIVITY:</b>  <u>Corrosivity to metals:</u> It is not corrosive to metals.  <u>Pyrophorical properties:</u> It is not pyrophoric.</p>
10.2	<p><b>CHEMICAL STABILITY:</b>                      Stable under recommended storage and handling conditions.</p>
10.3	<p><b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>                      Possible dangerous reaction with acids, amines, metals, combustible materials.</p>
10.4	<p><b>CONDITIONS TO AVOID:</b>  <u>Heat:</u> Keep away from sources of heat.  <u>Light:</u> Not applicable.  <u>Air:</u> # El producto no se vé afectado por exposición al aire, pero se recomienda no dejar los recipientes abiertos.  <u>Pressure:</u> # Not relevant.  <u>Shock:</u> # El producto no es sensible a los choques, pero como recomendación de tipo general se deben evitar golpes y manejos bruscos, para evitar abolladuras y roturas de envases y embalajes, en especial cuando se manipula el producto en grandes cantidades, y durante las operaciones de carga y descarga.</p>
10.5	<p><b>INCOMPATIBLE MATERIALS:</b>                      Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.</p>
10.6	<p><b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>                      As consequence of thermal decomposition, hazardous products may be produced.</p>



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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 (EC) No. 1272/2008-605/2014 (CLP).

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**

ACUTE TOXICITY:

<u>Dose and lethal concentrations for individual ingredients :</u>	<u>DL50 (OECD 401)</u> mg/kg oral	<u>DL50 (OECD 402)</u> mg/kg cutaneous	<u>CL50 (OECD 403)</u> mg/m3.4h inhalation
Sodium hypochlorite (as active chlorine)	> 2000. Rat	> 2000. Rabbit	
Didecyldimethylammonium chloride	329. Rat	3342. Rabbit	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	756. Rat	680. Rabbit	> 290. Rat
3-iodo-2-propynyl butylcarbamate	1470. Rat	> 2000. Rat	> 6890. Rat

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
<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).
<u>Skin:</u> Not classified	ATE > 2000 mg/kg	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).
<u>Ingestion:</u> Not classified	ATE > 5000 mg/kg	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<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).
<u>Skin corrosion/irritation:</u> 	Skin 	Cat.2	IRRITANT: Causes skin irritation.
<u>Serious eye damage/irritation:</u> 	Eyes 	Cat.1	DAMAGE: Causes serious eye damage.
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
<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).

• Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

ASPIRATION HAZARD:

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

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: Is not considered as a carcinogenic product.

Genotoxicity: Is not considered as a mutagenic product.

Toxicity for reproduction: Do not harm fertility. Do not harm the fetus developing.

Effects via lactation: Not classified as a hazardous product for children breast-fed.





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**DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:**

Routes of exposure: Not available.  
Short-term exposure: Not available.  
Long-term or repeated exposure: Not available.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: Not available.  
Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:

Not available.

**SECTION 12 : ECOLOGICAL INFORMATION**

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~605/2014 (CLP).

**12.1 TOXICITY:**

Acute toxicity in aquatic environment for individual ingredients :

Sodium hypochlorite (as active chlorine)  
Didecyldimethylammonium chloride  
4,5-dichloro-2-octyl-2H-isothiazol-3-one  
3-iodo-2-propynyl butylcarbamate

CL50 (OECD 203)  
mg/l.96hours

0.060 Fishes  
0.49 Fishes  
0.0078 Fishes  
0.067 Fishes

CE50 (OECD 202)  
mg/l.48hours

0.048 Daphnia  
0.057 Daphnia  
0.0097 Daphnia  
0.16 Daphnia

CE50 (OECD 201)  
mg/l.72hours

0.062 Algae  
0.025 Algae  
0.022 Algae

No observed effect concentration

Not available

Lowest observed effect concentration

Not available

**12.2 PERSISTENCE AND DEGRADABILITY:**

Not available.

Aerobic biodegradation for individual ingredients :

Didecyldimethylammonium chloride  
4,5-dichloro-2-octyl-2H-isothiazol-3-one  
3-iodo-2-propynyl butylcarbamate

DQO  
mgO2/g

1148.

%DBO/DQO  
5 days 14 days 28 days

Biodegradability

Not applicable  
Not applicable  
Not easy

**12.3 BIOACCUMULATIVE POTENTIAL:**

May bioaccumulate.

Bioaccumulation for individual ingredients :

Sodium hypochlorite (as active chlorine)  
Didecyldimethylammonium chloride  
4,5-dichloro-2-octyl-2H-isothiazol-3-one  
3-iodo-2-propynyl butylcarbamate

logPow

-3.42  
0.380  
3.59  
2.81

BCF  
L/kg

3.2 (calculated)  
81. (calculated)  
108. (calculated)  
26. (calculated)

Potential

No bioaccumulable  
Not available  
High  
Low

**12.4 MOBILITY IN SOIL:**

Not available.

**12.5 RESULTS OF PBT AND VPVB ASSESSMENT:** Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfill 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 reevaluation or recycling. Dispose of this material and its container to hazardous or special waste collection point. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of 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~2005/20/EC, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed of 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.

Procedures for neutralising or destroying the product:

Authorised landfill in accordance with local regulations.



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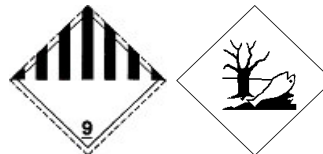
**SECTION 14 : TRANSPORT INFORMATION**

14.1 **UN NUMBER:** 3082

14.2 **UN PROPER SHIPPING NAME:**  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains didecyldimethylammonium chloride)

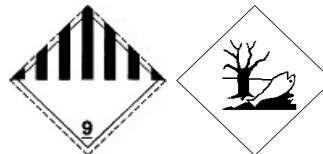
14.3 **TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:**

14.4 **Transport by road (ADR 2015) and Transport by rail (RID 2015):**  
 - Class: 9  
 - Packaging group: III  
 - Classification code: M6  
 - Tunnel restriction code: (E)  
 - Transport category: 3 , max. ADR 1.1.3.6. 1000 L  
 - Limited quantities: 5 L (see total exemptions ADR 3.4)  
 - Transport document: Consignment paper.  
 - Instructions in writing: ADR 5.4.3.4



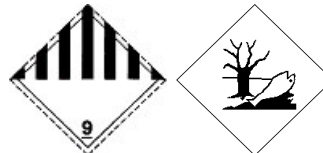
**Transport by sea (IMDG 37-14):**

- Class: 9  
 - Packaging group: III  
 - Emergency Sheet (EmS): F-A,S-F  
 - First Aid Guide (MFAG): -  
 - Marine pollutant: Yes.  
 - Transport document: Shipping Bill of lading.



**Transport by air (ICAO/IATA 2015):**

- Class: 9  
 - Packaging group: III  
 - Transport document: Air Bill of lading.



**Transport by inland waterways (ADN):**  
Not available.

14.5 **ENVIRONMENTAL HAZARDS:**  
Classified as hazardous for the environment.

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 in a vertical position and sure.

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 material safety data sheet.

**Restrictions on manufacture, placing on market and use:** See section 1.2

**Control of the risks inherent in major accidents (Seveso III):** See section 7.2

**Tactile warning of danger:** Not applicable (the classification criteria are not met).

**Child safety protection:** Not applicable (the classification criteria are not met).

**OTHER REGULATIONS:**  
Not available

15.2 **CHEMICAL SAFETY ASSESSMENT:**  
For this mixture has not been carried out a chemical safety assessment.

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## SECTION 16 : OTHER INFORMATION

16.1 [TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:](#)  
[Hazard statements according to the Regulation \(EC\) No. 1272/2008~605/2014 \(CLP\), Annex III:](#)  
 H290 May be corrosive to metals. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H331 Toxic if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. EUH031 Contact with acids liberates toxic gas. H372i 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 als labelling since the hazards vary at different concentrations.

[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 material 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/>
- Threshold Limit Values, (AGCIH, 2014).
- European agreement on the international carriage of dangerous goods by road, (ADR 2015).
- International Maritime Dangerous Goods Code IMDG including Amendment 37-14 (IMO, 2014).

[ABBREVIATIONS AND ACRONYMS:](#)

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- DSD: Dangerous Substances Directive.
- DPD: Dangerous Preparations Directive.
- 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.
- VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Letal dose, 50 percent.
- LC50: Letal 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.

[MATERIAL SAFETY DATA SHEET REGULATIONS:](#)

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

[HISTORY:](#)

Version:	Revision:
10	15/12/2015
11	25/10/2016

[Modifications with respect to the previous Material Safety Data Sheet:](#)

# *The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.*

The information of this Material 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 Material 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.