

United Barcode Systems  
Labeling, Coding & Marking

OIL BASED BLACK INK 1000ML

Code : INK51023311

Version: 17

Revision: 13/10/2025

Previous revision: 01/08/2025

Date of printing: 13/10/2025

According to Article 31 of Regulation (EC) No. 1907/2006 (REACH), a safety data sheet (SDS) must be provided for dangerous substances or mixtures. This product does not meet the classification criteria of Regulation (EC) No. 1272/2008 (CLP). Therefore, this document is outside the scope of Article 31 of REACH and the requirements regarding the content of each section are not applicable.

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

1.1	<p><b>PRODUCT IDENTIFIER:</b> OIL BASED BLACK INK 1000ML Code : INK51023311</p>
1.2	<p><b>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:</b> Intended uses (main technical functions): <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Professional <input type="checkbox"/> Consumers Inkjet printing ink. <b>Sectors of use:</b> Industrial manufacturing (SU3). <b>Uses advised against:</b> None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided. <b>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</b> Not restricted.</p>
1.3	<p><b>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</b> UNITED BARCODE SYSTEMS, S.L. Polígono Industrial Els Garrofers 56 - 08340 Vilassar de Mar (Barcelona) ESPAÑA Phone number: +34 937540410 - www.ubscod.es <b>- E-mail address of the person responsible for the Safety Data Sheet:</b> ink.lab@ubscod.com</p>
1.4	<p><b>EMERGENCY TELEPHONE NUMBER:</b> +34 937540410 8:00-18:00h.</p>

## SECTION 2 : HAZARDS IDENTIFICATION

2.1	<p><b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</b> This product is not classified as dangerous, in accordance with Regulation (EU) No. 1272/2008~2024/197 (CLP).  Note: This product does not require a Safety Data Sheet according to the Regulation (EC) no. 2020/878. When used as recommended or under ordinary conditions, it should not present a physicochemical, health safety or environmental hazard. However, an MSDS can be provided as a courtesy in response to a customer request.</p>
2.2	<p><b>LABEL ELEMENTS:</b> This product does not require pictograms, in accordance with in accordance with Regulation (EU) No. 1272/2008~2024/197 (CLP). <b>- Hazard statements:</b> None. <b>- Precautionary statements:</b> None. <b>- Supplementary statements:</b> EUH210 Safety data sheet available on request. <b>- Substances that contribute to classification:</b> None in a percentage equal to or higher than the limit for the name.</p>
2.3	<p><b>OTHER HAZARDS:</b> Hazards which do not result in classification but which may contribute to the overall hazards of the mixture: <b>- Other physicochemical hazards:</b> No other relevant adverse effects are known. <b>- Other adverse human health effects:</b> Prolonged exposure to vapours may produce transient drowsiness. Prolonged contact may cause skin dryness. <b>- Other negative environmental effects:</b> Does not contain substances that fulfil the PBT/vPvB criteria. <b>Endocrine disrupting properties:</b> This product does not contain substances with endocrine disrupting properties identified or under evaluation.</p>

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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:

Liquid printing ink.

HAZARDOUS INGREDIENTS:

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

None.

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, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 25/06/2025.

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.

POP substances included in the (EU) REGULATION 2019/1021~2020/784 on persistent organic pollutants:

None.

## 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:	It is not expected that symptoms will occur under normal conditions of use.	Should there be any symptoms, transfer the person affected to the open air.
Skin:	It is not expected that symptoms will occur under normal conditions of use.	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:	It is not expected that symptoms will occur under normal conditions of use.	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.	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.

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**SECTION 5: FIREFIGHTING MEASURES**

5.1	<b>EXTINGUISHING MEDIA:</b> Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist.
5.2	<b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:</b> 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	<b>ADVICE FOR FIREFIGHTERS:</b> <b>Special protective equipment:</b> 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. <b>Other recommendations:</b> 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> Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product.
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 non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. 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 waste disposal, follow the recommendations in section 13.

**SECTION 7: HANDLING AND STORAGE**

7.1	<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> 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. Due to the possibility of the product becoming charged electrostatically, always use earthed leads when transferring from one container to another. Do not smoke. Flashpoint 140* °C (Pensky-Martens) CLP 2.6.4.3. Autoignition temperature: 338* °C <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> 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	<b>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:</b> Forbid the entry to unauthorized persons. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. 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> 12 Months. <b>- Temperature interval:</b> min:10 °C, max:45 °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): Directive 2012/18/EU:</b> Not applicable (the classification criteria are not met).
7.3	<b>SPECIFIC END USE(S):</b> For the use of this product particular recommendations apart from that already indicated are not available.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	<p><b>CONTROL PARAMETERS:</b></p> <p>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.</p> <p><a href="#">- OCCUPATIONAL EXPOSURE LIMIT VALUES (WEL)</a> Not established</p> <p><a href="#">- BIOLOGICAL LIMIT VALUES:</a> Not established</p> <p><a href="#">- DERIVED NO-EFFECT LEVEL (DNEL):</a> Not available</p> <p><a href="#">- PREDICTED NO-EFFECT CONCENTRATION (PNEC):</a> Not available</p>														
8.2	<p><b>EXPOSURE CONTROLS:</b></p> <p><b>APPROPRIATE ENGINEERING CONTROLS:</b></p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.</p> </div> </div> <p><b>INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:</b></p> <p><a href="#">- Protection of respiratory system:</a> Not applicable.</p> <p><a href="#">- Protection of eyes and face:</a> It is recommended to install emergency eye baths close to the working area.</p> <p><a href="#">- Protection of hands and skin:</a> # It is recommended to install emergency showers 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.</p> <p><a href="#">Occupational exposure controls: Regulation (EU) No. 2016/425:</a> 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.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 5px;">Mask: </td> <td style="padding: 5px;"># Mask for gases and vapours (EN14387). Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 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.</td> </tr> <tr> <td style="padding: 5px;">Safety goggles: </td> <td style="padding: 5px;"># Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.</td> </tr> <tr> <td style="padding: 5px;">Face shield:</td> <td style="padding: 5px;">No.</td> </tr> <tr> <td style="padding: 5px;">Gloves: </td> <td style="padding: 5px;"># 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 &gt;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 &gt;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. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.</td> </tr> <tr> <td style="padding: 5px;">Boots:</td> <td style="padding: 5px;">No.</td> </tr> <tr> <td style="padding: 5px;">Apron:</td> <td style="padding: 5px;">No.</td> </tr> <tr> <td style="padding: 5px;">Clothing:</td> <td style="padding: 5px;">No.</td> </tr> </table> <p><a href="#">- Thermal hazards:</a></p>	Mask: 	# Mask for gases and vapours (EN14387). Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 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.	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. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.	Boots:	No.	Apron:	No.	Clothing:	No.
Mask: 	# Mask for gases and vapours (EN14387). Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 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.														
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. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.														
Boots:	No.														
Apron:	No.														
Clothing:	No.														

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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 does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

**- 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: # Black  
Odour: Characteristic  
Odour threshold: Not available (mixture).

**Change of state**

Freezing point: Not available (mixture).  
Initial boiling point: 271\* °C at 760 mmHg

**- Flammability:**

Flashpoint 140\* °C (Pensky-Martens) CLP 2.6.4.3.  
Lower/upper flammability or explosive limits: Not available  
Autoignition temperature: 338\* °C

**Stability**

Decomposition temperature: Not available (technical impossibility to obtain the data).

**pH-value**

pH: Not applicable (non-aqueous media).

**- Viscosity:**

Dynamic viscosity: Not available.  
Kinematic viscosity: Not available.

**- Solubility(ies):**

Solubility in water: Not miscible  
Liposolubility: 0 g/l at 20°C  
Partition coefficient: n-octanol/water: Not applicable (mixture).

**- Volatility:**

Vapour pressure: 0,013\* mmHg at 20°C  
Vapour pressure: 0,0135\* kPa at 50°C  
Evaporation rate: Not available (lack of data).

**Density**

Relative density: 0,854\* at 20/4°C Relative water  
Relative vapour density: 8,37\* at 20°C 1 atm. Relative air

**Particle characteristics**

Particle size: Not applicable.

**- Explosive properties:**

Not available.

**- Oxidizing properties:**

Not classified as oxidizing product.

\*Estimated values based on the substances composing the mixture.

**9.2 OTHER INFORMATION:****Information regarding physical hazard classes**

No additional information available.

**Other security features:**

Heat of combustion: Not applicable.  
Nonvolatile: 18,20 \* % Weight 1h. 60°C

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.

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## SECTION 10: STABILITY AND REACTIVITY

10.1	<b>REACTIVITY:</b> <u>- Corrosivity to metals:</u> It is not corrosive to metals. <u>- Pyrophorical properties:</u> It is not pyrophoric.
10.2	<b>CHEMICAL STABILITY:</b> Stable under recommended storage and handling conditions.
10.3	<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b> Possible dangerous reaction with oxidizing agents.
10.4	<b>CONDITIONS TO AVOID:</b> <u>- Heat:</u> Keep away from sources of heat. <u>- Light:</u> If possible, avoid direct contact with sunlight. <u>- Air:</u> The product is not affected by exposure to air, but should not be left the containers open. <u>- Humidity:</u> Avoid extreme humidity conditions. <u>- Pressure:</u> Not relevant. <u>- Shock:</u> 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	<b>INCOMPATIBLE MATERIALS:</b> Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
10.6	<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> 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. 1272/2008~2024/197 (CLP).				
11.1	<b><u>INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008 :</u></b> <b><u>ACUTE TOXICITY:</u></b> <b><u>Dose and lethal concentrations for individual ingredients:</u></b> Not available <b><u>Estimates of acute toxicity (ATE) for individual ingredients:</u></b> Not classified as a product with acute toxicity.  <b><u>- No observed adverse effect level</u></b> Not available  <b><u>- Lowest observed adverse effect level</u></b> Not available <b><u>INFORMATION ON LIKELY ROUTES OF EXPOSURE: ACUTE TOXICITY:</u></b>				
	Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
	Inhalation: Not classified	ATE > 5000 mg/m <sup>3</sup>	Not available.	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 available.	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 available.	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).				
	<b><u>CORROSION / IRRITATION / SENSITISATION :</u></b>				
	Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria

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- 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.

GHS/CLP 3.8.3.4: 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.

#### 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. Causes skin irritation.

##### - 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.

#### 11.2 INFORMATION ON OTHER HAZARDS:

##### Endocrine disrupting properties:

This product does not contain substances with endocrine disrupting properties identified or under evaluation.

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Other information:

No additional information 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 (EU) No. 1272/2008~2024/197 (CLP).

12.1

TOXICITY:- Acute toxicity in aquatic environment

Not available

- No observed effect concentration

Not available

- 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:	-	Not classified as a dangerous product with chronic toxicity to aquatic life with long lasting effects (based on available data, the classification criteria are not met).	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:- Biodegradability:

Not available.

- Hydrolysis:

Not available.

- Photodegradability:

Not available.

12.3

BIOACCUMULATIVE POTENTIAL:

Not available.

Bioaccumulation for individual ingredients	logPow	BCF L/kg	Potential

12.4

MOBILITY IN SOIL:

Not available

Mobility

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

ENDOCRINE DISRUPTING PROPERTIES:

This product does not contain substances with endocrine disrupting properties identified or under evaluation.

12.7

OTHER ADVERSE EFFECTS:- Ozone depletion potential:- Photochemical ozone creation potential:

Not available.

- Earth global warming potential:

In case of fire or incineration liberates CO2.

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## 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.

LER code	Description	Type of waste
		Non-hazardous

[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 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:](#)

Controlled incineration in special facilities for chemical waste, in accordance with local regulations.

## SECTION 14: TRANSPORT INFORMATION

14.1 [UN NUMBER OR ID NUMBER:](#)

Not applicable

14.2 [UN PROPER SHIPPING NAME:](#)

Not applicable

14.3 [TRANSPORT HAZARD CLASS\(ES\):](#)

[Transport by road \(ADR 2025\) and](#)

[Transport by rail \(RID 2025\):](#)

No reglamented

[Transport by sea \(IMDG 41-22\):](#)

No reglamented

[Transport by air \(ICAO/IATA 2024\):](#)

No reglamented

[Transport by inland waterways \(ADN\):](#)

No reglamented

14.4 [PACKING GROUP:](#)

No reglamented

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 [MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS:](#)

Not applicable.

## SECTION 15: REGULATORY INFORMATION

15.1 [SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:](#)

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).

[OTHER REGULATIONS:](#)

Not available.

[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

16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EU) No. 1272/2008~2024/197 (CLP), Annex III:

Not applicable.

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).
- European agreement on the international carriage of dangerous goods by road, (ADR 2025).
- International Maritime Dangerous Goods Code IMDG including Amendment 41-22 (IMO, 2022).

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.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LC50: Lethal concentration, 50 percent.
- LD50: Lethal dose, 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. 2020/878.

HISTORIC: REVISION:

Version: 13	25/07/2024
Version: 14	19/02/2025
Version: 15	30/04/2025
Version: 16	01/08/2025
Version: 17	13/10/2025

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 #.

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.

Safety Data Sheet (SDS) generated with the 6.0.0.196 version of the JMTCHEM software ([www.jmtchemsolutions.com](http://www.jmtchemsolutions.com)).