PLIONEUCE PRIMER - Anti-Saltpeter Primer
Code: 01.07

Version: 11 Revision: 18/11/2021 Previous revision: 22/08/2018 Date of printing: 18/11/2021

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

1.1 PRODUCT IDENTIFIER: PLIONEUCE PRIMER - Anti-Saltpeter Primer
UFI: FT10-Y093-500J-QQAA Code: 01.07

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
Intended uses (main technical functions): [_] Industrial [X] Professional [X] Consumers
Binding primer, solvent-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 these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

# *Classification in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP):*
DANGER: Flam. Liq. 3:H226 | Lact.:H362 | STOT SE (narcosis) 3:H336 | STOT RE 1:H372 | Aquatic Acute 1:H400 | Aquatic Chronic 1:H410 | EUH066

| Danger class | Classification of the mixture | | Cat. | Routes of exposure | Target organs | Effects |
|---|---|---|---|---|---|---|
| Physicochemical: | Flam. Liq. 3:H226 | c) | Cat.3 | - | - | - |
| | Lact.:H362 | c) | - | Ingestion | - | - |
| | STOT SE (narcosis) 3:H336 | c) | Cat.3 | Inhalation | CNS | Narcosis |
| | STOT RE 1:H372i | c) | Cat.1 | Inhalation | Systemic | Damage |
| Human health: | Aquatic Acute 1:H400 | c) | Cat.1 | - | - | - |
| | Aquatic Chronic 1:H410 | c) | Cat.1 | - | - | - |
| | EUH066 | c) | - | Skin | Skin | Dryness, Cracking |
| Environment: | | | | | | |

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

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

2.2 LABEL ELEMENTS:

# *This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP)*

Hazard statements:

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H362 | May cause harm to breast-fed children. |
| H372i | Causes damage to organs through prolonged or repeated exposure if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

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. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260c | Do not breathe vapours. |
| P280F | Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection. |

P273-P391-P501a Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local regulations.

Supplementary statements:
EUH208 Contains tall-oil fatty acids oleylamide. May produce an allergic reaction.

Substances that contribute to classification:
Hydrocarbons C9-C12 (aromatics 2-25%)
Hydrocarbons C9 aromatics

Note: This product does not apply by spraying (hazardous respirable droplets may not be formed).

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: # *No other relevant adverse effects are known.*
Other negative environmental effects: # *Does not contain substances that fulfil the PBT/vPvB criteria.*

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable (mixture).

3.2 MIXTURES:
# *This product is a mixture.*
Chemical description:
# *Mixture of acrylic polymer and additives.*

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

| | | |
|---|---|---|
| 30 < 40 %  | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)<br>(CAS: 64742-82-1) , List No. 919-446-0 REACH: 01-2119458049-33<br>CLP: Danger: Flam. Liq. 3: H226 \| STOT SE (narcosis) 3: H336 \| STOT RE 1: H372i \| Asp. Tox. 1: H304 \| Aquatic Chronic 2: H411 \| EUH066 | Autoclassified < REACH |
| 10 < 15 %  | Hydrocarbons C9 aromatics<br>(CAS: 64742-95-6) , List No. 918-668-5 REACH: 01-2119455851-35<br>CLP: Danger: Flam. Liq. 3: H226 \| STOT SE (irrit.) 3: H335 \| STOT SE (narcosis) 3: H336 \| Asp. Tox. 1: H304 \| Aquatic Chronic 2: H411 \| EUH066 | Autoclassified < REACH |
| 5 < 10 %  | Chlorinated paraffins C14-C17<br>CAS: 85535-85-9 , EC: 287-477-0 REACH: 01-2119519269-33<br>CLP: Warning : Lact.: H362 \| Aquatic Acute 1: H400 (M=100) \| Aquatic Chronic 1: H410 (M=10) \| EUH066 | Index No. 602-095-00-X < REACH / ATP01 |
| < 0,15 %  | Solvent naphtha (petroleum), light aromatic<br>CAS: 64742-95-6 , EC: 265-199-0 REACH: 01-2119486773-24<br>CLP: Danger: Flam. Liq. 3: H226 \| Skin Irrit. 2: H315 \| STOT SE (narcosis) 3: H336 \| Asp. Tox. 1: H304 \| Aquatic Chronic 2: H411 | Index No. 649-356-00-4 (Note H,P) < REACH / ATP01 |
| < 0,1 %  | Tall-oil fatty acids oleylamide<br>CAS: 85711-55-3 , EC: 288-315-1<br>CLP: Danger: Eye Dam. 1: H318 \| Skin Sens. 1A: H317 \| STOT RE 2: H373o | Autoclassified < REACH |

Impurities:
# *Content of benzene < 0.1%.*

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 08/07/2021.*
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:
# *Chlorinated paraffins C14-C17 , PBT (Article 57d), vPvB (Article 57e), Resolution: ECHA/D(2021)4569-DC.*

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

## SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES:

*# In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 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.*

| Route of exposure | Symptoms and effects, acute and delayed | Description of first-aid measures |
|---|---|---|
| Inhalation: | *# Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness.* | *# 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.* |
| Skin: | *# Prolonged contact may cause skin dryness.* | *# 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.* |
| Eyes: | *# Contact with the eyes produces redness and pain.* | *# Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. If irritation persists, consult a physician.* |
| Ingestion: | *# If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.* | *# 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:
*# Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, halogenated compounds, hydrochloric acid. 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..). Clean preferably with a biodegradable detergent. Avoid use of solvents. Keep the remains in a closed container.*

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

## SECTION 7 : HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

# *Comply with the existing legislation on health and safety at work.*

General recommendations:

# *Avoid any type of leakage or escape. Keep the container tightly closed.*

Recommendations for the prevention of fire and explosion risks:

# *Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. 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 | : | # 46* | # ºC | # CLP 2.6.4.3. |
| - Autoignition temperature | : | # 291* | # ºC | |
| - Lower/upper flammability or explosive limits | : | # 0.6* - 7.0* | % Volume 25ºC | |

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:

# *Keep locked up. 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. 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.*

| | | |
|---|---|---|
| Class of storage | : | # *According to current legislation.* |
| Maximum storage period | : | # *24. months* |
| Temperature interval | : | # *min: 5. ºC, max: 35. ºC (recommended).* |

Incompatible materials:

# *Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.*

Type of packaging:

# *According to current legislation.*

Limit quantity (Seveso III): # *Directive 2012/18/EU:*

Not applicable (product for non industrial use). .

7.3 SPECIFIC END USES:

# *For the use of this product particular recommendations apart from that already indicated are not available.*

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

CONTROL PARAMETERS:

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

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

| AGCIH 2020 | Year | TLV-TWA ppm | TLV-TWA mg/m3 | TLV-STEL ppm | TLV-STEL mg/m3 | Remarks |
|---|---|---|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | | 100. | - | - | - | |
| Hydrocarbons C9 aromatics | | 50. | 290. | - | - | Recommended |
| Solvent naphtha (petroleum), light aromatic | | 50. | 290. | - | - | Internal value |

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

BIOLOGICAL LIMIT VALUES:
Not available

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

| Derived no-effect level, workers:<br>- Systemic effects, acute and chronic: | DNEL Inhalation mg/m3 | | DNEL Cutaneous mg/kg bw/d | | DNEL Oral mg/kg bw/d | |
|---|---|---|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | 570. (a) | 330. (c) | s/r (a) | 21.0 (c) | - (a) | - (c) |
| Hydrocarbons C9 aromatics | - (a) | 150. (c) | - (a) | 25.0 (c) | - (a) | - (c) |
| Chlorinated paraffins C14-C17 | - (a) | 6.70 (c) | - (a) | 47.9 (c) | - (a) | - (c) |
| Solvent naphtha (petroleum), light aromatic | - (a) | - (c) | - (a) | - (c) | - (a) | - (c) |

| Derived no-effect level, workers:<br>- Local effects, acute and chronic: | DNEL Inhalation mg/m3 | | DNEL Cutaneous mg/cm2 | | DNEL Eyes mg/cm2 | |
|---|---|---|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | s/r (a) | s/r (c) | s/r (a) | s/r (c) | s/r (a) | - (c) |
| Hydrocarbons C9 aromatics | - (a) | - (c) | - (a) | - (c) | - (a) | - (c) |
| Chlorinated paraffins C14-C17 | - (a) | - (c) | - (a) | - (c) | - (a) | - (c) |
| Solvent naphtha (petroleum), light aromatic | - (a) | - (c) | - (a) | - (c) | - (a) | - (c) |

| Derived no-effect level, general population:<br>- Systemic effects, acute and chronic: | DNEL Inhalation mg/m3 | | DNEL Cutaneous mg/kg bw/d | | DNEL Oral mg/kg bw/d | |
|---|---|---|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | 570. (a) | 71.0 (c) | s/r (a) | 12.0 (c) | s/r (a) | 21.0 (c) |
| Hydrocarbons C9 aromatics | - (a) | 32.0 (c) | - (a) | 11.0 (c) | - (a) | 11.0 (c) |
| Chlorinated paraffins C14-C17 | - (a) | 2.00 (c) | - (a) | 28.8 (c) | - (a) | 0.580 (c) |
| Solvent naphtha (petroleum), light aromatic | - (a) | - (c) | - (a) | - (c) | - (a) | - (c) |

| Derived no-effect level, general population:<br>- Local effects, acute and chronic: | DNEL Inhalation mg/m3 | | DNEL Cutaneous mg/cm2 | | DNEL Eyes mg/cm2 | |
|---|---|---|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | s/r (a) | s/r (c) | s/r (a) | s/r (c) | s/r (a) | - (c) |
| Hydrocarbons C9 aromatics | - (a) | - (c) | - (a) | - (c) | - (a) | - (c) |
| Chlorinated paraffins C14-C17 | - (a) | - (c) | - (a) | - (c) | - (a) | - (c) |
| Solvent naphtha (petroleum), light aromatic | - (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).

PREDICTED NO-EFFECT CONCENTRATION ( PNEC):

| | | | |
|---|---|---|---|
| Predicted no-effect concentration, aquatic organisms:<br>- Fresh water, marine water and intermittent release:<br>Hydrocarbons C9-C12 (aromatics 2-25%)<br>Hydrocarbons C9 aromatics<br>Chlorinated paraffins C14-C17<br>Solvent naphtha (petroleum), light aromatic | PNEC Fresh water<br>mg/l<br>uvcb<br>uvcb<br>0.00100<br>uvcb | PNEC Marine<br>mg/l<br>uvcb<br>uvcb<br>0.000200<br>uvcb | PNEC Intermittent<br>mg/l<br>uvcb<br>uvcb<br>-<br>uvcb |
| - Waste water treatment plants ( STP) and sediments in fresh- and marine water:<br>Hydrocarbons C9-C12 (aromatics 2-25%)<br>Hydrocarbons C9 aromatics<br>Chlorinated paraffins C14-C17<br>Solvent naphtha (petroleum), light aromatic | PNEC STP<br>mg/l<br>uvcb<br>uvcb<br>80.0<br>uvcb | PNEC Sediments<br>mg/kg dw/d<br>uvcb<br>uvcb<br>13.0<br>uvcb | PNEC Sediments<br>mg/kg dw/d<br>uvcb<br>uvcb<br>2.60<br>uvcb |
| Predicted no-effect concentration, terrestrial organisms:<br>- Air, soil and effects for predators and humans:<br>Hydrocarbons C9-C12 (aromatics 2-25%)<br>Hydrocarbons C9 aromatics<br>Chlorinated paraffins C14-C17<br>Solvent naphtha (petroleum), light aromatic | PNEC Air<br>mg/m3<br>uvcb<br>uvcb<br>-<br>uvcb | PNEC Soil<br>mg/kg dw/d<br>uvcb<br>uvcb<br>11.9<br>uvcb | PNEC Oral<br>mg/kg dw/d<br>uvcb<br>uvcb<br>10.0<br>uvcb |

(-) - PNEC not available (without data of registration REACH).
uvcb - The substance has an unknown or variable composition (UVCB). The conventional methods to derive the PNEC are not appropriate and it is not possible to identify a single PNEC representative for these substances, and therefore not used in calculations for risk assessment.

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.*
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:  ✓ | *# A-type filter mask (brown) for gases and vapours of organic compounds with a boiling point higher than 65ºC (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. 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. In presence of high concentrations of vapour, use independent breathing apparatus.* |
| 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. 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: | *# Advisable.* |

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 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: *# 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 h) Binding primer, solvent-borne. VOC (product ready for use*) ( produto pronto a usar. ) : 560. g/l* (VOC max. 750. g/l* starting from 01.01.2010).*
- VOC (industrial installations): *# If this product is used in an industrial installation, it must be verified if it is applicable the Directive 2010/75/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents : 43.0% Weight , VOC (supply) : 43.0% Weight , VOC : 36.9% C (expressed as carbon) , Molecular weight (average) : 140.4 , Number C atoms (average) : 10.0.*

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

| | | | | |
|---|---|---|---|---|
| Appearance | | | | |
| - Physical state | : | # *Liquid.* | | |
| - Colour | : | # *White.* | | |
| - Odour | : | # *Characteristic.* | | |
| pH-value | | | | |
| - pH | : | # *Not applicable (non-aqueous media).* | | |
| Change of state | | | | |
| - Melting point | : | # *Not applicable (mixture).* | | |
| - Initial boiling point | : | # *140** | # *ºC at 760 mmHg* | |
| Density | | | | |
| - Relative density | : | # *1.295* | # *at 20/4ºC* | Relative water |
| Stability | | | | |
| Viscosity: | | | | |
| - Dynamic viscosity | : | # *897.* | cps 20ºC | |
| - Kinematic viscosity | : | # *230.* | mm2/s at 40ºC | |
| - Viscosity (Krebs-Stormer) | : | # *75. ± 2.* | # *KU 25ºC* | |
| Volatility: | | | | |
| - Evaporation rate | : | # *177.4** | nBuAc=100 25ºC | Relative |
| - Vapour pressure | : | # *15.3** | # *mmHg at 20ºC* | |
| - Vapour pressure | : | # *6.6** | kPa at 50ºC | |
| Solubility(ies) | | | | |
| - Partition coefficient: n-octanol/water | : | # *Not applicable (mixture).* | | |
| Flammability: | | | | |
| - Flash point | : | # *46** | ºC | # *CLP 2.6.4.3.* |
| - Lower/upper flammability or explosive limits | : | # *0.6* - 7.0** | % Volume 25ºC | |
| - Autoignition temperature | : | # *291** | # *ºC* | |

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:

| | | | |
|---|---|---|---|
| - Solids | : | # *57.1* | # *% Weight* |
| - VOC (supply) | : | # *43.0* | % Weight |
| - VOC (supply) | : | # *560.0* | 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, metals.*

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.*
- Humidity: # *Avoid extreme humidity conditions.*
- Pressure: # *Not relevant.*
- Shock: # *The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.*

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

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
# *As consequence of thermal decomposition, hazardous products may be produced: hydrochloric acid, halogenated compounds.*

## 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. 1272/2008~2020/1182 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

| Dose and lethal concentrations for individual ingredients : | LD50 (OECD 401) mg/kg bw oral | LD50 (OECD 402) mg/kg bw cutaneous | LC50 (OECD 403) mg/m3·4h inhalation |
|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | > 5000. Rat | > 2000. Rabbit | > 13100. Rat |
| Hydrocarbons C9 aromatics | 3592. Rat | 3160. Rabbit | > 6193. Rat |
| Chlorinated paraffins C14-C17 | 26100. Rat | 13500. Rabbit | > 20000. Rat |
| Solvent naphtha (petroleum), light aromatic | 3900. Rat | 3160. Rabbit | |
| Tall-oil fatty acids oleylamide | > 2000. Rat | | |

Estimates of acute toxicity (ATE)
for individual ingredients :
Not classified as a product with acute toxicity.

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

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

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

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

CORROSION / IRRITATION / SENSITISATION :

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

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

ASPIRATION HAZARD:

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

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

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

| Effects | SE/RE | Target organs | Cat. | Main effects, acute and/or delayed | Criteria |
|---|---|---|---|---|---|
| Systemic: | RE | Systemic | Cat.1 | *# TOXIC: Causes damage to organs through prolonged or repeated exposure if inhaled.* | GHS/CLP 3.8.3.4. |
| Cutaneous: | RE | Skin | - | *# DEFATTENING: Repeated exposure may cause skin dryness or cracking.* | GHS/CLP 1.2.4. |
| Neurological: | SE | CNS | Cat.3 | *# NARCOSIS: May cause drowsiness or dizziness if inhaled.* | GHS/CLP 3.8.3.4. |

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

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: *# May cause harm to breast-fed children.*

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 and 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 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 (EU) No. 1272/2008~2020/1182 (CLP).

12.1 TOXICITY:

| Acute toxicity in aquatic environment<br>for individual ingredients : | LC50 (OECD 203)<br>mg/l·96hours | EC50 (OECD 202)<br>mg/l·48hours | EC50 (OECD 201)<br>mg/l·72hours |
|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | > 10. Fishes | > 10. Daphnia | > 4.6 Algae |
| Hydrocarbons C9 aromatics | > 9.2 Fishes | > 3.2 Daphnia | > 2.9 Algae |
| Chlorinated paraffins C14-C17 | 5000. Fishes | 0.0059 Daphnia | > 3.2 Algae |
| Solvent naphtha (petroleum), light aromatic | > 9.2 Fishes | > 6.1 Daphnia | |
| Tall-oil fatty acids oleylamide | > 100. Fishes | > 15. Daphnia | > 7.0 Algae |
| No observed effect concentration | NOEC (OECD 210)<br>mg/l·28days | NOEC (OECD 211)<br>mg/l·21days | NOEC (OECD 201)<br>mg/l·72hours |
| Chlorinated paraffins C14-C17 | 0.13 Fishes | 0.0040 Daphnia | |
| Lowest observed effect concentration | LOEC (OECD 210)<br>mg/l·28days | LOEC (OECD 211)<br>mg/l·21days | LOEC (OECD 201)<br>mg/l·72hours |
| Chlorinated paraffins C14-C17 | | 0.018 Daphnia | |

ASSESSMENT OF AQUATIC TOXICITY:

| Aquatic toxicity | Cat. | Main hazards to the aquatic environment | Criteria |
|---|---|---|---|
| Acute aquatic toxicity:  | Cat.1 | *# VERY TOXIC: Very toxic to aquatic life.* | GHS/CLP 4.1.3.5.5.3. |
| Chronic aquatic toxicity:  | Cat.1 | *# VERY TOXIC: Very toxic to aquatic life with long lasting effects.* | GHS/CLP 4.1.3.5.5.4. |

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

12.2 PERSISTENCE AND DEGRADABILITY:
*# Not available.*

| Aerobic biodegradation<br>for individual ingredients : | DQO<br>mgO2/g | %DBO/DQO<br>5 days 14 days 28 days | Biodegradability |
|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | | | Easy |
| Hydrocarbons C9 aromatics | 3195. | | Easy |
| Chlorinated paraffins C14-C17 | ~ 1500. | | Not easy |
| Solvent naphtha (petroleum), light aromatic | 3195. | | Easy |
| Tall-oil fatty acids oleylamide | | 51. 72. 87. | Easy |

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

12.3 BIOACCUMULATIVE POTENTIAL:
*# Not available.*

| Bioaccumulation<br>for individual ingredients : | log Pow | BCF<br>L/kg | Potential |
|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | 5.65 | > 100. (calculated) | Low |
| Hydrocarbons C9 aromatics | 3.30 | 70. (calculated) | Low |
| Chlorinated paraffins C14-C17 | 7.40 | 2152. (calculated) | High |
| Solvent naphtha (petroleum), light aromatic | 3.30 | 70. (calculated) | Low |
| Tall-oil fatty acids oleylamide | 13.5 | 71. (calculated) | Low |

12.4 MOBILITY IN SOIL:
*# Not available.*

| Mobility<br>for individual ingredients : | log Poc | Constant of Henry<br>Pa·m3/mol 20ºC | Potential |
|---|---|---|---|
| Hydrocarbons C9-C12 (aromatics 2-25%) | 4.90 | | Low |
| Hydrocarbons C9 aromatics | 2.96 | 440. (calculated) | Low |
| Chlorinated paraffins C14-C17 | 6.42 | | High |
| Solvent naphtha (petroleum), light aromatic | 2.96 | 440. (calculated) | Low |
| Tall-oil fatty acids oleylamide | 8.16 | | Low |

| | |
|---|---|
| 12.5 | RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:<br>*# Does not contain substances that fulfil the PBT/vPvB criteria.* |
| 12.6 | OTHER ADVERSE EFFECTS:<br>Ozone depletion potential: *# Not available.*<br>Photochemical ozone creation potential: *# Not available.*<br>Earth global warming potential: *# In case of fire or incineration liberates CO2.*<br>Endocrine disrupting potential: *# Not available.* |

## SECTION 13 : DISPOSAL CONSIDERATIONS

| | |
|---|---|
| 13.1 | WASTE TREATMENT METHODS: *# Directive 2008/98/EC~Regulation (EU) no. 1357/2014:*<br>*# 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.*<br><br>Disposal of empty containers: *# Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:*<br>*# Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.*<br><br>Procedures for neutralising or destroying the product:<br>*# Controlled incineration in special facilities for chemical waste, in accordance with local regulations. Contains halogenated compounds: In the case of incineration, take all necessary measures in order to avoid production and emission of furanes and dioxines into the atmosphere above the legal limits allowed.* |

## SECTION 14 : TRANSPORT INFORMATION

| | |
|---|---|
| 14.1 | UN NUMBER: 1263 |
| 14.2 | UN PROPER SHIPPING NAME:<br>PAINT |
| 14.3 | TRANSPORT HAZARD CLASS(ES):<br><br>Transport by road (ADR 2021) and<br>Transport by rail (RID 2021):<br><br>- Class: 3<br>- Packing group: III<br>- Classification code: F1<br>- Tunnel restriction code: (D/E)<br>- Transport category: 3 , max. ADR 1.1.3.6. 1000 L<br>- Limited quantities: 5 L (see total exemptions ADR 3.4)<br>- Transport document: Consignment paper.<br>- Instructions in writing: ADR 5.4.3.4<br><br>Transport by sea (IMDG 39-18):<br><br>- Class: 3<br>- Packing group: III<br>- Emergency Sheet (EmS): F-E,S_E<br>- First Aid Guide (MFAG) : 310,313<br>- Marine pollutant: Yes.<br>- Transport document: Shipping Bill of lading.<br><br>Transport by air (ICAO/IATA 2021):<br><br>- Class: 3<br>- Packing group: III<br>- Transport document: Air Bill of lading.<br><br>Transport by inland waterways (ADN):<br>*# Not available.* |
| 14.4 | PACKING GROUP:<br>See section 14.3 |
| 14.5 | ENVIRONMENTAL HAZARDS:<br>*# Classified as hazardous for the environment.* |
| 14.6 | SPECIAL PRECAUTIONS FOR USER:<br>*# Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation.* |
| 14.7 | TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:<br>*# Not applicable.* |




## SECTION 15 : REGULATORY INFORMATION

| | |
|---|---|
| 15.1 | EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:<br>The regulations applicable to this product generally are listed throughout this Safety Data Sheet.<br><br>Restrictions on manufacture, placing on market and use: See section 1.2 |

Tactile warning of danger: If the product is intended for the general public, is mandatory a tactile warning of danger. The technical specifications for tactile warning devices shall conform with EN ISO standard 11683 relating to 'Packaging - Tactile warnings of danger - Requirements.'

Child safety protection: If the product is intended for the general public, is required a child-resistant fastening. Child-proof fastenings used on reclosable packages shall comply with ISO standard 8317 relating to 'Child resistant packages - Requirements and methods of testing for reclosable packages.' Child-proof fastenings used on non-reclosable packages shall comply with CEN standard EN 862, relating to 'Packaging - Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products.'

VOC information on the label:
*# Contains VOC max. 560. g/l - The limit value 2004/42/CE-IIA cat. h) for the product ready for use is VOC max. 750. g/l (2010).*

OTHER REGULATIONS:

Responsabilidade ambiental:
A utilização deste produto em Portugal fica sujeita ao regime de responsabilidade ambiental previsto no DL.147/2008.

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

Other local legislations:
*# The receiver should verify the possible existence of local regulations applicable to the chemical.*

15.2 CHEMICAL SAFETY ASSESSMENT:
*# A chemical safety assessment has not been carried out for this mixture.*

## SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:
Hazard statements according the Regulation (EU) No. 1272/2008~2020/1182 (CLP), Annex III:
H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H362 May cause harm to breast-fed children. 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. EUH066 Repeated exposure may cause skin dryness or cracking. H372i Causes damage to organs through prolonged or repeated exposure if inhaled. H373o May cause damage to organs through prolonged or repeated exposure if swallowed.
Notes related to the identification, classification and labelling of the substances:
Note H : The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown.
Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1% w/w benzene (EC No. 200-753-7).

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

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

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:
*# · European Chemicals Agency: ECHA, http://echa.europa.eu/*
*# · Access to European Union Law, http://eur-lex.europa.eu/*
· Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
· Threshold Limit Values, (AGCIH, 2018).
· European agreement on the international carriage of dangerous goods by road, (ADR 2021).
· International Maritime Dangerous Goods Code IMDG including Amendment 39-18 (IMO, 2018).

*# ABBREVIATIONS AND ACRONYMS:*
List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:
*# · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.*
*# · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.*
*# · CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.*
*# · EINECS: European Inventory of Existing Commercial Chemical Substances.*
*# · ELINCS: European List of Notified Chemical Substances.*
*# · CAS: Chemical Abstracts Service (Division of the American Chemical Society).*
*# · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.*
*# · SVHC: Substances of Very High Concern.*
*# · PBT: Persistent, bioaccumulable and toxic substances.*
*# · vPvB: Very persistent and very bioaccumulable substances.*
*# · VOC: Volatile Organic Compounds.*

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

| HISTORIC: | Revision: |
|---|---|
| Version: 10 | 22/08/2018 |
| Version: 11 | 18/11/2021 |

*# 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.