# Safety Data Sheet
## Hempalux Brillante

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - Europe

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name : Hempalux Brillante

Product identity : 529701E940, 0013814C

Product type : alkyd paint

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Field of application : buildings

Identified uses : Professional applications, Used by spraying.

### 1.3 Details of the supplier of the safety data sheet

Company details : HEMPEL A/S
Lundtoftegårdsvej 91
DK-2800 Kgs. Lyngby
Denmark
Tel.: + 45 45 93 38 00
hempel@hempel.com

Date of issue : 13 November 2023

Date of previous issue : 21 November 2022.

### 1.4 Emergency telephone number

Emergency telephone number (with hours of operation)

+45 45 93 38 00 (08.00 - 17.00)
See section 4 First aid measures.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| | |
|---|---|
| Flam. Liq. 3, H226 | FLAMMABLE LIQUIDS |
| Skin Sens. 1, H317 | SKIN SENSITIZATION |
| STOT SE 3, H336 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) |
| STOT RE 1, H372 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) |
| Aquatic Chronic 2, H411 | AQUATIC HAZARD (LONG-TERM) |

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapor.
H317 - May cause an allergic skin reaction.
H336 - May cause drowsiness or dizziness.
H372 - Causes damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention : Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor, mist or spray.

Response : Collect spillage.

Hazardous ingredients : hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
phthalic anhydride
Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Supplemental label elements : Repeated exposure may cause skin dryness or cracking.

**Special packaging requirements**

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

## SECTION 2: Hazards identification

### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | | Type |
|---|---|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | REACH #: 01-2119463258-33<br>EC: 265-150-3<br>CAS: 64742-48-9<br>Index: 649-327-00-6 | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>EUH066 | - | [1] |
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | REACH #: 01-2119458049-33<br>EC: 265-185-4<br>CAS: 64742-82-1<br>Index: 649-405-00-X | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT RE 1, H372 (central nervous system (CNS)) (inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066 | - | [1] [2] |
| Solvent naphtha (petroleum), light arom. | REACH #: 01-2119455851-35<br>EC: 918-668-5<br>CAS: 128601-23-0 | ≥5 - ≤10 | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066 | - | [1] [2] |
| xylene | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥1 - ≤3 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315 | ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (gases)] = 5000 ppm | [1] [2] |
| C10-C13 hydrocarbons (n-alkanes, isoalkanes, cyclics) <2% aromatics | REACH #: 01-2119457273-39<br>EC: 265-150-3<br>CAS: 64742-48-9<br>Index: 649-327-00-6 | ≥1 - ≤3 | Asp. Tox. 1, H304<br>EUH066 | - | [1] |
| trizinc bis(orthophosphate) | REACH #: 01-2119485044-40<br>EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6 | ≤1 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | M [Acute] = 1<br>M [Chronic] = 1 | [1] |
| phthalic anhydride | REACH #: 01-2119457017-41<br>EC: 201-607-5<br>CAS: 85-44-9<br>Index: 607-009-00-4 | ≤0.3 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335 | ATE [Oral] = 1530 mg/kg | [1] |
| Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | REACH #: 01-2119970640-38<br>CAS: 162627-17-0 | ≤0.3 | Skin Sens. 1A, H317 | - | [1] |
| 4-nonylphenol, branched | REACH #: 01-2119510715-45<br>EC: 284-325-5<br>CAS: 84852-15-3<br>Index: 601-053-00-8 | ≤0.1 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Repr. 2, H361fd<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 1246 mg/kg<br>M [Acute] = 10<br>M [Chronic] = 10 | [1] [3] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**Type**

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit, see section 8.
[3] Substance of equivalent concern

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

| | |
|---|---|
| General : | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.<br>If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate treatment (first aid). |
| Eye contact : | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice. |
| Inhalation : | Remove to fresh air and keep at rest in a position comfortable for breathing. Give nothing by mouth. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. |
| Skin contact : | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. |
| Ingestion : | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat. |
| Protection of first-aiders : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

### 4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

| | |
|---|---|
| Eye contact : | No known significant effects or critical hazards. |
| Inhalation : | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact : | Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. |
| Ingestion : | Can cause central nervous system (CNS) depression. |

**Over-exposure signs/symptoms**

| | |
|---|---|
| Eye contact : | No specific data. |
| Inhalation : | Adverse symptoms may include the following:<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact : | Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking |
| Ingestion : | No specific data. |

### 4.3 Indication of any immediate medical attention and special treatment needed

| | |
|---|---|
| Notes to physician : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments : | No specific treatment. |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

| | |
|---|---|
| Extinguishing media : | Recommended: alcohol resistant foam, $CO_2$, powders, water spray.<br>Not to be used: waterjet. |

### 5.2 Special hazards arising from the substance or mixture

| | |
|---|---|
| Hazards from the substance or mixture : | Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products : | Decomposition products may include the following materials: carbon oxides |

## SECTION 5: Firefighting measures

### 5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.
Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|---|---|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | **EU OEL (Europe, 2000).**<br>TWA: 25 ppm 8 hours.<br>TWA: 145 mg/m³ 8 hours. |
| Solvent naphtha (petroleum), light arom. | **EU OEL (Europe).**<br>TWA: 120 mg/m³ 8 hours. Form: Tentativ<br>TWA: 25 ppm 8 hours. Form: Tentativ |
| xylene | **EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin.**<br>TWA: 50 ppm 8 hours.<br>TWA: 221 mg/m³ 8 hours.<br>STEL: 100 ppm 15 minutes.<br>STEL: 442 mg/m³ 15 minutes. |

**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required 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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Derived effect levels**

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|---|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | DNEL | Long term Inhalation | 1500 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 300 mg/kg bw/day | Workers | Systemic |
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | DNEL | Long term Dermal | 21 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 330 mg/m³ | Workers | Systemic |
| Solvent naphtha (petroleum), light arom. | DNEL | Long term Dermal | 25 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 150 mg/m³ | Workers | Systemic |
| xylene | DNEL | Long term Inhalation | 77 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| C10-C13 hydrocarbons (n-alkanes, isoalkanes, cyclics) <2% aromatics | DNEL | Long term Dermal | 208 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 871 mg/m³ | Workers | Systemic |
| trizinc bis(orthophosphate) | DNEL | Long term Inhalation | 5 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg bw/day | Workers | Systemic |
| phthalic anhydride | DNEL | Long term Dermal | 14 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 49.4 mg/m³ | Workers | Systemic |
| 4-nonylphenol, branched | DNEL | Long term Dermal | 7.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.5 mg/m³ | Workers | Systemic |

**Predicted effect concentrations**

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|---|---|---|
| xylene | Fresh water | 0.327 mg/l | - |
| | Marine water | 0.327 mg/l | - |
| | Fresh water sediment | 12.46 mg/kg | - |
| | Marine water sediment | 12.46 mg/kg | - |
| | Soil | 2.31 mg/kg | - |
| | Sewage Treatment Plant | 6.68 mg/l | - |
| trizinc bis(orthophosphate) | Fresh water | 20.6 µg/l | - |
| | Marine water | 6.1 µg/l | - |
| | Fresh water sediment | 117.8 mg/kg dwt | - |
| | Marine water sediment | 56.5 mg/kg dwt | - |
| | Soil | 35.6 mg/kg dwt | - |
| | Sewage Treatment Plant | 52 µg/l | - |
| 4-nonylphenol, branched | Fresh water | 0.000614 mg/l | - |
| | Marine water | 0.000527 mg/l | - |
| | Sewage Treatment Plant | 9.5 mg/l | - |
| | Fresh water sediment | 4.62 mg/kg dwt | - |
| | Marine water sediment | 1.23 mg/kg dwt | - |
| | Soil | 2.3 mg/kg dwt | - |

**8.2 Exposure controls**

**Appropriate engineering controls**

## SECTION 8: Exposure controls/personal protection

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Individual protection measures**

| | |
|---|---|
| General : | Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure. |
| Hygiene measures : | Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day. |
| Eye/face protection : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Hand protection : | Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.<br>Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:<br><br>Recommended: Silver Shield / Barrier / 4H gloves, nitrile rubber, polyvinyl alcohol (PVA), Viton®<br>Short term exposure: neoprene rubber, butyl rubber, natural rubber (latex), polyvinyl chloride (PVC) |
| Body protection : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.<br>Wear suitable protective clothing. Always wear protective clothing when spraying. |
| Respiratory protection : | When the product is applied by spraying and for continuous or prolonged work always wear an air-fed respirator e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent. |

**Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Physical state : | Liquid. |
| Color : | Black. |
| Odor : | Solvent-like |
| pH : | Testing not relevant or not possible due to nature of the product. |
| Melting point/freezing point : | Testing not relevant or not possible due to nature of the product. |
| Boiling point/boiling range : | Testing not relevant or not possible due to nature of the product. |
| Flash point : | Closed cup: 39°C (102.2°F) |
| Evaporation rate : | Testing not relevant or not possible due to nature of the product. |
| Flammability : | Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| Lower and upper explosive (flammable) limits : | 0.8 - 7.6 vol % |
| Vapor pressure : | Testing not relevant or not possible due to nature of the product. |
| Vapor density : | Testing not relevant or not possible due to nature of the product. |
| Specific gravity : | 0.93 g/cm³ |
| Partition coefficient (LogKow) : | Testing not relevant or not possible due to nature of the product. |
| Auto-ignition temperature : | Lowest known value: 280 - 470°C (536 - 878°F) (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics). |
| Decomposition temperature : | Testing not relevant or not possible due to nature of the product. |
| Viscosity : | Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product. |

## SECTION 9: Physical and chemical properties

| | |
|---|---|
| Explosive properties : | Testing not relevant or not possible due to nature of the product. |
| Oxidizing properties : | Testing not relevant or not possible due to nature of the product. |

### 9.2 Other information

| | |
|---|---|
| Solvent(s) % by weight : | Weighted average: 48 % |
| Water % by weight : | Weighted average: 0 % |
| VOC content : | 449.8 g/l |
| TOC Content : | Weighted average: 402 g/l |
| Solvent Gas : | Weighted average: 0.083 m³/l |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

### 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.
Slightly reactive or incompatible with the following materials: reducing materials.

### 10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

**Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | LD50 Oral | Rat | >2000 mg/kg | - |
| Solvent naphtha (petroleum), light arom. | LC50 Inhalation Vapor | Rat | 6193 mg/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 3160 mg/kg | - |
| | LD50 Oral | Rat | 3492 mg/kg | - |
| xylene | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 6350 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >4200 mg/kg | - |
| | LD50 Oral | Rat | 3523 mg/kg | - |
| C10-C13 hydrocarbons (n-alkanes, isoalkanes, cyclics) <2% aromatics | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| trizinc bis(orthophosphate) | LD50 Oral | Rat | >5000 mg/kg | - |
| phthalic anhydride | LD50 Dermal | Rabbit | >3160 mg/kg | - |
| | LD50 Oral | Rat | 1530 mg/kg | - |

## SECTION 11: Toxicological information

| | | | | |
|---|---|---|---|---|
| 4-nonylphenol, branched | LD50 Dermal<br>LD50 Oral | Rabbit<br>Rat | >2000 mg/kg<br>1246 mg/kg | -<br>- |

**Acute toxicity estimates**

| Product/ingredient name | Oral mg/kg | Dermal mg/kg | Inhalation (gases) ppm | Inhalation (vapors) mg/l | Inhalation (dusts and mists) mg/l |
|---|---|---|---|---|---|
| Hempalux Brillante | | 69967.5 | 318034 | | |
| Solvent naphtha (petroleum), light arom. | 3492 | 3160 | | | |
| xylene | 3523 | 1100 | 5000 | | |
| phthalic anhydride | 1530 | | | | |
| 4-nonylphenol, branched | 1246 | | | | |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure |
|---|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | Eyes - Mild irritant | Rabbit | - | - |
| Solvent naphtha (petroleum), light arom. | Eyes - Mild irritant | Rabbit | - | 24 hours 100 microliters |
| | Respiratory - Mild irritant | Rabbit | - | - |
| | Skin - Moderate irritant | Rabbit | - | - |
| xylene | Eyes - Severe irritant | Rabbit | - | 24 hours 5 milligrams |
| | Skin - Irritant | Rabbit | - | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams |
| C10-C13 hydrocarbons (n-alkanes, isoalkanes, cyclics) <2% aromatics | Eyes - Mild irritant | Mammal - species unspecified | - | - |
| | Skin - Mild irritant | Mammal - species unspecified | - | - |
| phthalic anhydride | Eyes - Moderate irritant | Rabbit | - | 24 hours 50 milligrams |
| 4-nonylphenol, branched | Eyes - Severe irritant | Rabbit | - | 100 milligrams |
| | Skin - Severe irritant | Rabbit | - | 24 hours 500 milligrams |

**Sensitizer**

| Product/ingredient name | Route of exposure | Species | Result |
|---|---|---|---|
| phthalic anhydride | skin<br>skin | Guinea pig<br>Mouse | Sensitizing<br>Sensitizing |

**Mutagenic effects**

No known significant effects or critical hazards.

**Carcinogenicity**

No known significant effects or critical hazards.

**Reproductive toxicity**

No known significant effects or critical hazards.

**Teratogenic effects**

No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | Category 3 | | Narcotic effects |
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Category 3 | | Narcotic effects |
| Solvent naphtha (petroleum), light arom. | Category 3<br>Category 3 | | Respiratory tract irritation<br>Narcotic effects |
| phthalic anhydride | Category 3 | | Respiratory tract irritation |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Category 1 | inhalation | central nervous system (CNS) |

**Aspiration hazard**

## SECTION 11: Toxicological information

| Product/ingredient name | Result |
|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | ASPIRATION HAZARD - Category 1 |
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), light arom. | ASPIRATION HAZARD - Category 1 |
| C10-C13 hydrocarbons (n-alkanes, isoalkanes, cyclics) <2% aromatics | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure**

Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential chronic health effects**

No known significant effects or critical hazards.

Sensitization : Contains phthalic anhydride, Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine. May produce an allergic reaction.

**11.2 Information on other hazards**

Endocrine disrupting properties : See Section 15 for details.

Other information : No additional known significant effects or critical hazards.

## SECTION 12: Ecological information

**12.1 Toxicity**

Do not allow to enter drains or watercourses. Toxic to aquatic life with long lasting effects.

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Chronic EC50 4.6 - 10 mg/l | Algae | 72 hours |
| | Chronic EC50 10 - 20 mg/l | Daphnia | 48 hours |
| | Chronic EC50 10 - 30 mg/l | Fish | 96 hours |
| Solvent naphtha (petroleum), light arom. | Acute EC50 2.6 mg/l | Algae - Pseudokirchneriella subcapitata (green algae) | 96 hours |
| | Acute EC50 3.2 mg/l | Daphnia | 48 hours |
| | Acute LC50 9.22 mg/l | Fish - Oncorhynchus mykiss (rainbow trout) | 96 hours |
| trizinc bis(orthophosphate) | Acute EC50 0.8 mg/l | Algae | 72 hours |
| | Acute EC50 2.44 mg/l | Daphnia | 48 hours |
| phthalic anhydride | Acute EC50 >640 mg/l Fresh water | Daphnia | 48 hours |
| 4-nonylphenol, branched | Acute EC50 0.0563 mg/l | Algae | 72 hours |
| | Acute EC50 137 µg/l Marine water | Crustaceans - Eohaustorius estuarius - Adult | 48 hours |
| | Acute EC50 0.085 mg/l | Daphnia | 48 hours |
| | Acute LC50 0.128 mg/l | Fish | 96 hours |
| | Chronic NOEC 23 µg/l Fresh water | Fish - Pimephales promelas - Embryo | 33 days |

**12.2 Persistence and degradability**

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 80 % - Readily - 28 days | - | - |
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 74.7 % - Readily - 28 days | - | - |
| Solvent naphtha (petroleum), light arom. | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 78 % - Readily - 28 days | - | - |
| | - | >70 % - Readily - 28 days | - | - |
| | - | >60 % - Readily - 28 days | - | - |
| xylene | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 90 - 98 % - Readily - 28 days | - | - |
| | - | >60 % - Readily - 28 days | - | - |
| phthalic anhydride | - | 85.2 % - Readily - 28 days | - | - |

## SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | - | - | Readily |
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | - | - | Readily |
| Solvent naphtha (petroleum), light arom. | - | - | Readily |
| xylene | - | - | Readily |
| phthalic anhydride | - | - | Readily |

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | 5 - 6.7 | 10 - 2500 | high |
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | - | 10 - 2500 | high |
| Solvent naphtha (petroleum), light arom. | - | 10 - 2500 | high |
| xylene | 3.12 | 8.1 - 25.9 | low |
| C10-C13 hydrocarbons (n-alkanes, isoalkanes, cyclics) <2% aromatics | - | 10 - 2500 | high |
| trizinc bis(orthophosphate) | - | 60960 | high |
| phthalic anhydride | 1.6 | 3.4 | low |
| 4-nonylphenol, branched | 5.4 | 740 | high |

### 12.4 Mobility in soil

Soil/water partition coefficient ($K_{OC}$) : No known data avaliable in our database.

Mobility : No known data avaliable in our database.

### 12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|---|---|---|---|---|---|---|
| This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | | | | | | | |

### 12.6 Endocrine disrupting properties

See Section 15 for details.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC) : 08 01 11*

**Packaging**

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

| | 14.1 UN / ID no. | 14.2 Proper shipping name | 14.3 Transport hazard class(es) | 14.4 PG* | 14.5 Env* | Additional information |
|---|---|---|---|---|---|---|
| **ADR/RID Class** | UN1263 | PAINT | 3 | III | Yes. | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Tunnel code** (D/E) |
| **IMDG Class** | UN1263 | PAINT. (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)) | 3 | III | Yes. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-E, S-E |
| **IATA Class** | UN1263 | PAINT | 3 | III | Yes. | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

PG* : Packing group
Env.* : Environmental hazards

### 14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### 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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization - Substances of very high concern

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

| Ingredient name | Intrinsic property | Status | Reference number | Date of revision |
|---|---|---|---|---|
| 4-nonylphenol, branched | Endocrine disrupting properties for environment | Candidate | ED/169/2012 | 12/19/2012 |

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

**Other EU regulations**

**Seveso category** This product is controlled under the Seveso III Directive.

| Seveso category |
|---|
| P5c: Flammable liquids 2 and 3 not falling under P5a or P5b<br>E2: Hazardous to the aquatic environment - Chronic 2 |

### 15.2 Chemical Safety Assessment

## SECTION 16: Other information

Abbreviations and acronyms :

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
EUH statement = CLP-specific Hazard statement
RRN = REACH Registration Number
DNEL = Derived No Effect Level
PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements :

| | |
|---|---|
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| 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. |

Full text of classifications [CLP/GHS] :

| | |
|---|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Aquatic Chronic 2 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 | TOXIC TO REPRODUCTION - Category 2 |
| Resp. Sens. 1 | RESPIRATORY SENSITIZATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITIZATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITIZATION - Category 1A |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 |

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS | On basis of test data |
| SKIN SENSITIZATION | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) | Calculation method |
| AQUATIC HAZARD (LONG-TERM) | Calculation method |

**Notice to reader**

Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications.
It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

**This safe use information is linked to** : Professional spray painting, near-industrial setting - Level I
HMP I/PW 01a

**Sector(s) of use** : Industrial uses - Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Indoor use

**Range of application/Process conditions** : Assumes a good standard of occupational hygiene and safety management has been implemented.

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08b | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Industrial application of coatings by spraying | PROC07 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08b | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.

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# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor painting by professionals by dipping or with brush, roller, putty knife etc. with enhanced ventilation or local exhaust ventilation (LEV)

**This safe use information is linked to** : Professional low-energy painting, near-industrial setting - Level I
HMP I/PW 02a

**Sector(s) of use** : Industrial uses - Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Indoor use

**Range of application/Process conditions** : Assumes a good standard of occupational hygiene and safety management has been implemented.

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08b | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Industrial application of coatings by other than spraying | PROC10 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08b | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

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# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor spray painting by professionals for specialist applications, with good general room ventilation plus respiratory protection

**This safe use information is linked to** : Professional spray painting, indoor (Level II)
CEPE / HMP PW 03b

**Sector(s) of use** : Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Indoor use

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Professional application of coatings by spraying | PROC11 | More than 4 hours | Good general room ventilation | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Good general room ventilation | 3 - 5 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08a | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

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# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor painting by professionals with brush or roller, with good general room ventilation (open doors/windows)

**This safe use information is linked to** : Professional painting, indoor brush/roller - Level I
CEPE / HMP PW 04a

**Sector(s) of use** : Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Indoor use

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Professional application of coatings by brush or roller | PROC10 | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Good general room ventilation | 3 - 5 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08a | More than 4 hours | Good general room ventilation | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

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# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Outdoor spray painting by professionals for specialist applications, with respiratory protection

**This safe use information is linked to** : Professional spray painting, outdoor (Level II)
CEPE PW 05b

**Sector(s) of use** : Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Outdoor use

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Professional application of coatings by spraying | PROC11 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08a | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.

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# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Outdoor spray painting by professionals for specialist applications, with respiratory protection

**This safe use information is linked to** : Professional spray painting, near-industrial setting - Level I
HMP I/PW 05a

**Sector(s) of use** : Industrial uses - Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Outdoor use

**Range of application/Process conditions** : Assumes a good standard of occupational hygiene and safety management has been implemented.

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08b | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Industrial application of coatings by spraying | PROC07 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08b | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.

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# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Outdoor painting by professionals by dipping or with brush, roller, putty knife etc.

**This safe use information is linked to** : Professional painting, outdoor brush/roller - Level I
CEPE / HMP PW 06a

**Sector(s) of use** : Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Outdoor use

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Professional application of coatings by brush or roller | PROC10 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08a | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.

*The information in this Safe Use of Mixture Information (SUMI) sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the Safety Data Sheet (SDS) and the label of the product.*
*No liability is accepted for any damage, no matter of what kind, which is a direct or indirect consequence of acts and/or decisions based on the contents of this document.*

# Safe Use of Mixture Information
## Hempalux Brillante

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Outdoor painting by professionals by dipping or with brush, roller, putty knife etc.

**This safe use information is linked to** : Professional low-energy painting, near-industrial setting - Level I
HMP I/PW 06a

**Sector(s) of use** : Industrial uses - Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Outdoor use

**Range of application/Process conditions** : Assumes a good standard of occupational hygiene and safety management has been implemented.

### Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type and air changes per hour | | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08b | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Industrial application of coatings by other than spraying | PROC10 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08b | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.

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