

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 : Hempatex HI-Build 46410
Product identity : 4641010400
Product type : acrylic primer

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

Field of application : metal industry, ships and shipyards. buildings
Identified uses : Consumer applications, Industrial applications, 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 : 18 November 2022
Date of previous issue : 13 November 2021.

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

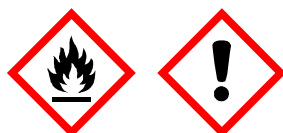
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS
Acute Tox. 4, H332 ACUTE TOXICITY (inhalation)
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION
Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM)

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

2.2 Label elements



Hazard pictograms :



Signal word : Warning

Hazard statements : H226 - Flammable liquid and vapor.
H315 - Causes skin irritation.
H332 - Harmful if inhaled.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements :

General : Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention : Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.
Response : IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients :  xylene
Supplemental label elements :  Contains 1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene, n-butyl methacrylate and methyl methacrylate. May produce an allergic reaction.
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Special packaging requirements

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

SECTION 2: Hazards identification

Tactile warning of danger : Yes, applicable.

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 |
|--|--|-----------|---|---|
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥25 - ≤50 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 | ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppm [1] [2] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥5 - <10 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 | ATE [Inhalation (vapours)] = 11 mg/l [1] [2] |
| dipropylene glycol dibenzoate | REACH #: 01-2119529241-49 EC: 248-258-5 CAS: 27138-31-4 | ≥1 - ≤3 | Aquatic Chronic 3, H412 - | [1] |
| solvent naphtha (petroleum), light arom. | REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6 | ≥1 - ≤3 | Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 | [1] [2] |
| titanium dioxide | REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2 | ≥1 - ≤3 | Carc. 2, H351 (inhalation) | [1] [*] |
| trizinc bis(orthophosphate) | REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6 | ≤1 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 [1] |
| 1,3-bis(12-hydroxyoctadecanamide-N-methyle) benzene | REACH #: 01-0000016979-49 EC: 423-300-7 | <1 | Skin Sens. 1B, H317 Aquatic Chronic 4, H413 | [1] |
| toluene | REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3 | <1 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 | [1] [2] |
| styrene | REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 | ≤0.3 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Inhalation (vapours)] = 11.8 mg/l [1] |
| n-butyl methacrylate | REACH #: 01-2119486394-28 EC: 202-615-1 CAS: 97-88-1 Index: 607-033-00-5 | ≤0.3 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 | [1] |
| methyl methacrylate | REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6 | ≤0.3 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 | [1] [2] |
| See Section 16 for the full text of the H statements declared above. | | | | |

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

SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit, see section 8.

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter $\leq 10 \mu\text{m}$ not bound within a matrix.

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. 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. In all cases of doubt, or when symptoms persist, seek medical attention. |
| Inhalation : | Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. 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. |

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 : | Harmful if inhaled. |
| Skin contact : | Causes skin irritation. |
| Ingestion : | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| | |
|----------------|--|
| Eye contact : | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation : | No specific data. |
| Skin contact : | Adverse symptoms may include the following: irritation redness |
| Ingestion : | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|-----------------------|--|
| Notes to physician : | If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed. 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. Not to be used: waterjet. |
|-----------------------|---|

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

| | |
|---|---|
| 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 harmful 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 nitrogen oxides metal oxide/oxides |

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.

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

| Product/ingredient name | Exposure limit values |
|--|---|
| xylene | EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. |
| ethylbenzene | EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. |
| solvent naphtha (petroleum), light arom. | EU OEL (Europe). TWA: 120 mg/m ³ 8 hours. Form: Tentativ TWA: 25 ppm 8 hours. Form: Tentativ |
| toluene | EU OEL (Europe, 1/2022). Absorbed through skin. TWA: 192 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. |
| methyl methacrylate | EU OEL (Europe, 1/2022). TWA: 50 ppm 8 hours. STEL: 100 ppm 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 |
|--|------|----------------------|-------------------------|------------|----------|
| xylene | DNEL | Long term Inhalation | 77 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| ethylbenzene | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 77 mg/m ³ | Workers | Systemic |
| dipropylene glycol dibenzoate | DNEL | Long term Dermal | 10 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 8.8 mg/m ³ | Workers | Systemic |
| solvent naphtha (petroleum), light arom. | DNEL | Long term Dermal | 25 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 150 mg/m ³ | Workers | Systemic |
| trizinc bis(orthophosphate) | DNEL | Long term Inhalation | 5 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg bw/day | Workers | Systemic |
| toluene | DNEL | Long term Dermal | 384 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 192 mg/m ³ | Workers | Systemic |
| styrene | DNEL | Long term Inhalation | 85 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 406 mg/kg | Workers | Systemic |
| n-butyl methacrylate | DNEL | Long term Dermal | 5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 415.9 mg/m ³ | Workers | Systemic |
| methyl methacrylate | DNEL | Long term Inhalation | 208 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 13.67 mg/kg bw/day | 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 | - |
| ethylbenzene | Fresh water | 0.1 mg/l | - |
| | Marine water | 0.01 mg/l | - |
| | Sewage Treatment Plant | 9.6 mg/l | - |
| | Fresh water sediment | 13.7 mg/kg | - |
| | Soil | 2.68 mg/kg | - |
| dipropylene glycol dibenzoate | Fresh water | 0.0037 mg/l | - |
| | Marine water | 0.00037 mg/l | - |

SECTION 8: Exposure controls/personal protection

| | | | |
|-----------------------------|------------------------|-----------------|---|
| trizinc bis(orthophosphate) | Fresh water sediment | 1.49 mg/kg | - |
| | Fresh water sediment | 0.149 mg/kg | - |
| | Soil | 1 mg/kg | - |
| | Sewage Treatment Plant | 10 mg/l | - |
| | 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 | - |
| toluene | Soil | 35.6 mg/kg dwt | - |
| | Sewage Treatment Plant | 52 µg/l | - |
| | Fresh water | 0.68 mg/l | - |
| | Marine water | 0.68 mg/l | - |
| | Sewage Treatment Plant | 13.61 mg/l | - |
| | Fresh water sediment | 16.39 mg/kg | - |
| | Marine water sediment | 16.39 mg/kg | - |
| | Soil | 2.89 mg/kg | - |
| styrene | Fresh water | 0.028 mg/l | - |
| | Marine water | 0.014 mg/l | - |
| | Fresh water sediment | 0.614 mg/kg | - |
| | Marine water sediment | 0.307 mg/kg | - |
| | Sewage Treatment Plant | 5 mg/l | - |
| | Soil | 0.2 mg/kg | - |
| | Fresh water | 0.017 mg/l | - |
| | Marine water | 0.002 mg/l | - |
| n-butyl methacrylate | Sewage Treatment Plant | 31.7 mg/l | - |
| | Fresh water sediment | 4.73 mg/kg | - |
| | Marine water sediment | 0.473 mg/kg | - |
| | Soil | 0.935 mg/kg | - |
| | Fresh water | 0.94 mg/l | - |
| | Marine water | 0.94 mg/l | - |
| | Soil | 1.47 mg/kg | - |
| | Sewage Treatment Plant | 10 mg/l | - |
| methyl methacrylate | Fresh water sediment | 5.74 mg/kg | - |
| | Fresh water | 0.47 mg/l | - |
| | Marine water | 0.47 mg/l | - |
| | Fresh water sediment | 2.44 mg/kg | - |
| | Marine water sediment | 2.44 mg/kg | - |
| | Soil | 0.29 mg/kg | - |
| | Sewage Treatment Plant | 0.19 mg/l | - |
| | | | - |

8.2 Exposure controls

Appropriate engineering controls

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: chemical splash goggles. |
| Hand protection : | <p>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.</p> <p>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:</p> <p>Recommended: Silver Shield / Barrier / 4H gloves, polyvinyl alcohol (PVA), Viton®</p> <p>May be used: nitrile rubber</p> <p>Short term exposure: neoprene rubber, butyl rubber, natural rubber (latex), polyvinyl chloride (PVC)</p> |
| Body protection : | <p>Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.</p> <p>Wear suitable protective clothing. Always wear protective clothing when spraying.</p> |

SECTION 8: Exposure controls/personal protection

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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 : | Gray |
| Odor : | Solvent-like |
| pH : | Testing not relevant or not possible due to nature of the product. |
| Melting point/freezing point : | -94.96°C This is based on data for the following ingredient: xylene |
| Boiling point/boiling range : | Testing not relevant or not possible due to nature of the product. |
| Flash point : | Closed cup: 26°C (78.8°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 - 6.7 vol % |
| Vapor pressure : | 0.893 kPa This is based on data for the following ingredient: xylene |
| Vapor density : | Testing not relevant or not possible due to nature of the product. |
| Specific gravity : | 1.198 g/cm ³ |
| Partition coefficient (LogKow) : | Testing not relevant or not possible due to nature of the product. |
| Auto-ignition temperature : | Lowest known value: 432°C (809.6°F) (xylene). |
| 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. |
| 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: 43 % |
| Water % by weight : | Weighted average: 0 % |
| VOC content : | 512.4 g/l |
| TOC Content : | Weighted average: 460 g/l |
| Solvent Gas : | Weighted average: 0.116 m ³ /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

SECTION 10: Stability and reactivity

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

Highly reactive or incompatible with the following materials: oxidizing materials.

Reactive or incompatible with the following materials: reducing materials and acids.

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 nitrogen oxides metal oxide/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 |
|--|---------------------------------|---------|-------------------------|----------|
| xylene | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 6350 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >4200 mg/kg | - |
| ethylbenzene | LD50 Oral | Rat | 3523 mg/kg | - |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| dipropylene glycol dibenzoate | LC50 Inhalation Dusts and mists | Rat | >200 mg/l | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 3914 mg/kg | - |
| solvent naphtha (petroleum), light arom. | LC50 Inhalation Vapor | Rat | 6193 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 3160 mg/kg | - |
| | LD50 Oral | Rat | 8400 mg/kg | - |
| titanium dioxide | LC50 Inhalation Dusts and mists | Rat | >6.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| trizinc bis(orthophosphate) 1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene | LD50 Oral | Rat | >5000 mg/kg | - |
| | LC50 Inhalation Dusts and mists | Rat | >5 mg/m ³ | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| toluene | LD50 Oral | Rat | >2000 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | >20 mg/l | 4 hours |
| | LD50 Oral | Rat | 636 mg/kg | - |
| styrene | LC50 Inhalation Gas. | Rat | 2770 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 11800 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 2650 mg/kg | - |
| n-butyl methacrylate | LC50 Inhalation Gas. | Rat | 4910 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 11300 uL/kg | - |
| | LD50 Oral | Rat | 16 g/kg | - |
| methyl methacrylate | LC50 Inhalation Vapor | Rat | 78000 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 7872 mg/kg | - |

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 |
|--|---------------|-----------------|------------------------------|--------------------------------|--|
| Hempatex HI-Build 46410 | | | | | |
| xylene | 3523 | 1100 | 5000 | | |
| ethylbenzene | 3500 | | | 11 | |
| dipropylene glycol dibenzoate | 3914 | | | | |
| solvent naphtha (petroleum), light arom. | 8400 | 3160 | | | |
| styrene | 2650 | | | 11.8 | |
| n-butyl methacrylate | 16000 | | | | |
| methyl methacrylate | 7872 | | | 78 | |

SECTION 11: Toxicological information

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure |
|--|-----------------------------|---------|-------|--------------------------------------|
| xylene | Eyes - Severe irritant | Rabbit | - | 24 hours 5 milligrams |
| | Skin - Irritant | Rabbit | - | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams |
| ethylbenzene | Eyes - Mild irritant | Rabbit | - | - |
| | Respiratory - Mild irritant | Rabbit | - | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 milligrams |
| dipropylene glycol dibenzoate | Eyes - Mild irritant | Rabbit | - | - |
| | Skin - Mild irritant | Rabbit | - | - |
| solvent naphtha (petroleum), light arom. | Eyes - Mild irritant | Rabbit | - | 24 hours 100 microliters |
| titanium dioxide | Skin - Mild irritant | Human | - | 72 hours 300 Micrograms Intermittent |
| toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes 100 milligrams |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams |
| styrene | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams |
| | Skin - Irritant | Rabbit | - | - |
| n-butyl methacrylate | Skin - Mild irritant | Rabbit | - | 500 microliters |

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 |
|-------------------------|------------|-------------------|------------------------------|
| toluene | Category 3 | | Narcotic effects |
| styrene | Category 3 | | Respiratory tract irritation |
| n-butyl methacrylate | Category 3 | | Respiratory tract irritation |
| methyl methacrylate | Category 3 | | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |
| toluene | Category 2 | - | - |
| styrene | Category 1 | - | hearing organs |

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| toluene | ASPIRATION HAZARD - Category 1 |
| styrene | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

Sensitization : Contains 1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene, n-butyl methacrylate, methyl methacrylate. 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. Harmful to aquatic life with long lasting effects.

| Product/ingredient name | Result | Species | Exposure |
|---|---------------------------------------|---|----------|
| ethylbenzene | Chronic NOEC <1000 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| dipropylene glycol dibenzoate | Acute LC50 4.9 mg/l | Algae | 72 hours |
| | Acute LC50 19.3 mg/l | Daphnia | 48 hours |
| | Acute LC50 3.7 mg/l | Fish | 96 hours |
| solvent naphtha (petroleum), light arom. | Acute EC50 19 mg/l | Algae - Pseudokirchneriella subcapitata (green algae) | 96 hours |
| | Acute EC50 6.14 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 9.22 mg/l | Fish - Oncorhynchus mykiss (rainbow trout) | 96 hours |
| titanium dioxide | Acute LC50 >100 mg/l | Daphnia | 48 hours |
| | Acute LC50 >100 mg/l | Fish | 96 hours |
| trizinc bis(orthophosphate) | Acute EC50 0.8 mg/l | Algae | 72 hours |
| | Acute EC50 2.44 mg/l | Daphnia | 48 hours |
| 1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene | Acute LC50 >100 mg/l | Algae | 72 hours |
| | Acute LC50 >100 mg/l | Fish | 96 hours |
| toluene | Chronic NOEC <500000 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Chronic NOEC 1000 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| styrene | Chronic NOEC 63 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| n-butyl methacrylate | Chronic NOEC 2.6 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|---|-------------------------------|------|----------|
| xylene | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 90 - 98 % - Readily - 28 days | - | - |
| ethylbenzene | - | >60 % - Readily - 28 days | - | - |
| dipropylene glycol dibenzoate | - | >70 % - Readily - 28 days | - | - |
| solvent naphtha (petroleum), light arom. | - | 87 % - Readily - 28 days | - | - |
| 1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene | - | >70 % - Readily - 28 days | - | - |
| toluene | - | 5 % - 28 days | - | - |
| styrene | - | 100 % - Readily - 14 days | - | - |
| | - | 70.9 % - Readily - 28 days | - | - |
| | - | >60 % - Readily - 10 days | - | - |
| n-butyl methacrylate | OECD 301C Ready Biodegradability - Modified MITI Test (I) | 88 % - Readily - 28 days | - | - |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| dipropylene glycol dibenzoate | - | - | Readily |
| solvent naphtha (petroleum), light arom. | - | - | Readily |
| 1,3-bis(12-hydroxyocta-decanamide-N-methyle)benzene | - | - | Not readily |
| toluene | - | - | Readily |
| styrene | - | - | Readily |
| n-butyl methacrylate | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|------------|-----------|
| xylene | 3.12 | 8.1 - 25.9 | low |
| ethylbenzene | 3.6 | - | low |
| dipropylene glycol dibenzoate | 3.9 | - | low |
| solvent naphtha (petroleum), light arom. | - | 10 - 2500 | high |
| trizinc bis(orthophosphate) | - | 60960 | high |
| toluene | 2.73 | 90 | low |
| styrene | 2.96 | 13.49 | low |
| n-butyl methacrylate | 2.99 | - | low |
| methyl methacrylate | 1.38 | - | low |

SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : No known data available in our database.

Mobility : No known data available 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 | No. | <u>Tunnel code</u> (D/E) |
| IMDG Class | UN1263 | PAINT | 3  | III | No. | <u>Emergency schedules</u> F-E, S-E |
| IATA Class | UN1263 | PAINT | 3  | III | No. | - |

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

None of the components are listed.

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 |

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 :

H225 Highly flammable liquid and vapor.
 H226 Flammable liquid and vapor.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 H361d Suspected of damaging the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H373 May cause 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.
 H412 Harmful to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.
 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
 Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3
 Aquatic Chronic 4 AQUATIC HAZARD (LONG-TERM) - Category 4
 Asp. Tox. 1 ASPIRATION HAZARD - Category 1
 Carc. 2 CARCINOGENICITY - Category 2
 Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
 Repr. 2 TOXIC TO REPRODUCTION - Category 2
 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
 Skin Sens. 1 SKIN SENSITIZATION - Category 1
 Skin Sens. 1B SKIN SENSITIZATION - Category 1B
 STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
 STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
 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]

SECTION 16: Other information

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS ACUTE TOXICITY (inhalation) SKIN CORROSION/IRRITATION AQUATIC HAZARD (LONG-TERM) | On basis of test data Calculation method Calculation method 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 performance 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.

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.



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. |

See chapter 8 of this Safety Data Sheet for specifications.



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

Wear suitable coveralls to prevent exposure to the skin. Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

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

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

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

Operational conditions

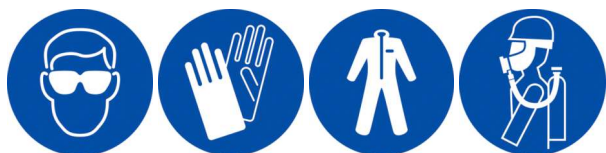
Place of use : Outdoor use

Range of application/Process conditions : Assumes a good standard of occupational hygiene and safety management has been implemented.
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

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 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training. |
| Loading of application equipment and handling of coated parts before curing | PROC08b | 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 chemical-resistant gloves (tested to EN374) in combination with specific activity training. |
| Industrial application of coatings by spraying | PROC07 | More than 4 hours | Outdoors | 3 - 5 | Use a properly fitted, air-purifying or air-fed respirator. EN 14594 with an assigned protection factor of at least 20. | Use eye protection according to EN 166. | Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Cleaning | PROC05 | 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 chemical-resistant gloves (tested to EN374) in combination with specific activity training. |
| Waste management | PROC08b | 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 chemical-resistant gloves (tested to EN374) in combination with specific activity training. |

See chapter 8 of this Safety Data Sheet for specifications.



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 V
HMP I/PW 06e

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 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. |
| Loading of application equipment and handling of coated parts before curing | PROC08b | 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 chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. |
| Industrial application of coatings by other than spraying | PROC10 | More than 4 hours | Outdoors | 3 - 5 | Use a properly fitted, air-purifying or air-fed respirator. EN 14594 with an assigned protection factor of at least 20. | Use eye protection according to EN 166. | Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Cleaning | PROC05 | 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 chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. |
| Waste management | PROC08b | 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 chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. |

See chapter 8 of this Safety Data Sheet for specifications.

