

1.4 Emergency telephone number

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - United Kingdom: Northern Ireland

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

# 1.1 Product identifier

| Product name :     | Hempel's Silvium |
|--------------------|------------------|
| Product identity : | 5157019000       |
| Product type :     | aluminium paint  |

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

| Field of application : | buildings , metal industry, ships and shipyards.                      |
|------------------------|---|
| Identified uses :      | Industrial applications, Professional applications, Used by spraying. |

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

| Company details :        | Hempel UK Ltd<br>Berwyn House, The Pavilions<br>Llantarnam Park<br>Cwmbran<br>South Wales NP44 3FD<br>Telephone: 01633 833600<br>hempel@hempel.com | Emergency telephone number (with hours of operation)<br>01633 833600 (08.00 - 17.00)<br>See Section 4 of the safety data sheet (first aid<br>measures). |
|--------------------------|--|---|
| Date of issue :          | 15 December 2021   |   |
| Date of previous issue : | No previous validation.  |   |

# **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, H226FLAMMABLE LIQUIDSCarc. 1B, H350CARCINOGENICITYSTOT SE 3, H336SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)STOT RE 1, H372SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSUREAquatic Chronic 2, H411LONG-TERM (CHRONIC) AQUATIC HAZARD

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 vapour.<br>H336 - May cause drowsiness or dizziness.<br>H350 - May cause cancer.<br>H372 - Causes damage to organs through prolonged or repeated exposure.<br>H411 - Toxic to aquatic life with long lasting effects.                                     |
| Precautionary statements :     |   |
| Prevention :                   | Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. 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. IF exposed or concerned: Get medical advice or attention.   |
| Hazardous ingredients :        | hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)<br>white spirit<br>2-butanone oxime   |
| Supplemental label elements :  | Contains 2-butanone oxime and cobalt bis(2-ethylhexanoate). May produce an allergic reaction. Restricted to professional users.   |
| Special packaging requirements | 6   |



# **SECTION 2: Hazards identification**

| Containers to be fitted with child-<br>resistant fastenings : | Not applicable. |
|---|-----------------|
| Tactile warning of danger :                                   | Not 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 None known.

in classification :

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

| Product/ingredient name  | Identifiers  | %         | Regulation (EC) No. 1272/2008 [C  | :LP]          | Туре    |
|--|--|-----------|---|---------------|---------|
| hydrocarbons, C9-C12, n-<br>alkanes, isoalkanes, cyclics,<br>aromatics (2-25%) | REACH #: 01-2119458049-33<br>EC: 919-446-0<br>CAS: 64742-82-1<br>Index: 649-405-00-X | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT RE 1, H372 (central nervous<br>system (CNS)) (inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066   | -             | [1] [2] |
| white spirit   | REACH #: 01-2119458049-33<br>EC: 265-191-7<br>CAS: 64742-88-7<br>Index: 649-405-00-X | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT RE 1, H372 (central nervous<br>system (CNS)) (inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411   | -             | [1] [2] |
| solvent naphtha (petroleum),<br>light arom.                                    | REACH #: 01-2119455851-35<br>EC: 265-199-0<br>CAS: 64742-95-6                        | ≥5 - ≤10  | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304   | Ρ             | [1] [2] |
| Solvent naphtha (petroleum),<br>light arom.                                    | REACH #: 01-2119455851-35<br>EC: 265-199-0<br>CAS: 64742-95-6                        | ≥1 - ≤3   | Aquatic Chronic 2, H411<br>Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304  | Ρ             | [1] [2] |
| styrene  | REACH #: 01-2119457861-32<br>EC: 202-851-5<br>CAS: 100-42-5                          | <1        | Aquatic Chronic 2, H411<br>Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361d<br>STOT SE 3, H335<br>STOT RE 1, H372 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | D             | [1]     |
| 2-butanone oxime   | REACH #: 01-2119539477-28<br>EC: 202-496-6<br>CAS: 96-29-7<br>Index: 616-014-00-0    | <1        | Acute Tox. 3, H301<br>Acute Tox. 4, H312<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Carc. 1B, H350<br>STOT SE 1, H370 (upper respiratory<br>tract)<br>STOT SE 3, H336<br>STOT RE 2, H373 (blood system)          | -             | [1]     |
| naphthalene  | EC: 202-049-5<br>CAS: 91-20-3  | ≤0.3      | Flam. Sol. 2, H228<br>Acute Tox. 4, H302<br>Carc. 2, H351<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)   |               | [1] [2] |
| cobalt bis(2-ethylhexanoate)   | REACH #: 01-2119524678-29<br>EC: 205-250-6<br>CAS: 136-52-7                          | <0.1      | Aquatic Chronic 1, H410 (M=1)<br>Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>Repr. 1B, H360F<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 3, H412<br>See Section 16 for the full text of the H statements<br>above.                 | -<br>declared | [1]     |

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.

Туре



# **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.
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

[6] Additional disclosure due to company policy

# **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 seek medical advice.   |
| Skin contact :               | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised 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 :                 | No known significant effects or critical hazards.   |  |
| 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 :                 | No specific data.   |  |
| 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 <sub>2</sub> , powders, water spray. |
|-----------------------|--|
|                       | Not to be used : waterjet.   |

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

| Hazards from the substance or mixture : | Flammable liquid and vapour. 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 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 vapour 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 spilt 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 material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach the 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 noncombustible, 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 spilt 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)



# **SECTION 7: Handling and storage**

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  |
|---|--|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | EU OEL (Europe, 2000).<br>TWA: 25 ppm 8 hours.   |
| white spirit  | TWA: 145 mg/m <sup>3</sup> 8 hours.<br><b>EU OEL (Europe).</b><br>(ACGIH) TWA: 25 ppm 8 hours.   |
| solvent naphtha (petroleum), light arom.                                | (ACGIH) TWA: 145 mg/m <sup>3</sup> 8 hours.<br><b>EU OEL (Europe).</b><br>TWA: 120 mg/m <sup>3</sup> 8 hours. Form: Tentativ<br>TWA: 25 ppm 8 hours. Form: Tentativ                    |
| Solvent naphtha (petroleum), light arom.                                | <b>EU OEL (Europe).</b><br>TWA: 120 mg/m <sup>3</sup> 8 hours. Form: Tentativ<br>TWA: 25 ppm 8 hours. Form: Tentativ   |
| styrene   | EH40/2005 WELs (United Kingdom (UK), 1/2020).<br>STEL: 250 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.<br>TWA: 430 mg/m <sup>3</sup> 8 hours.<br>STEL: 1080 mg/m <sup>3</sup> 15 minutes. |
| naphthalene   | EU OEL (Europe, 10/2019).<br>TWA: 50 mg/m <sup>3</sup> 8 hours.<br>TWA: 10 ppm 8 hours.  |
| cobalt bis(2-ethylhexanoate)  | EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.<br>TWA: 0.1 mg/m <sup>3</sup> , (as Co) 8 hours.  |

# **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 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   | Туре | Exposure             | Value                 | Population | Effects  |
|---|------|----------------------|-----------------------|------------|----------|
| 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/m <sup>3</sup> | Workers    | Systemic |
| white spirit  | DNEL | Long term Dermal     | 21 mg/kg bw/day       | Workers    | Systemic |
|   | DNEL | Long term Inhalation | 330 mg/m <sup>3</sup> | 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 <sup>3</sup> | 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 <sup>3</sup> | Workers    | Systemic |
| styrene   | DNEL | Long term Inhalation | 85 mg/m <sup>3</sup>  | Workers    | Systemic |
| ,   | DNEL | Long term Dermal     | 406 mg/kg             | Workers    | Systemic |
| 2-butanone oxime  | DNEL | Long term Inhalation | 9 mg/m <sup>3</sup>   | Workers    | Systemic |
|   | DNEL | Long term Dermal     | 1.3 mg/kg bw/day      | Workers    | Systemic |

#### Predicted effect concentrations

| Product/ingredient name      | Compartment Detail     | Value          | Method Detail |
|------------------------------|------------------------|----------------|---------------|
| 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      | -             |
| cobalt bis(2-ethylhexanoate) | Sewage Treatment Plant | 0.37 mg/l      | -             |
|                              | Fresh water            | 0.62 µg/l      | -             |
|                              | Marine water           | 2.36 µg/l      | -             |
|                              | Fresh water sediment   | 53.8 mg/kg dwt | -             |
|                              | Marine water sediment  | 69.8 mg/kg dwt | -             |
|                              | Soil                   | 10.9 mg/kg dwt | -             |



# **SECTION 8: Exposure controls/personal protection**

#### 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: safety glasses with side-shields.  |
| Hand protection :              | Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The<br>quality of the chemical-resistant protective gloves must be chosen as a function of the specific<br>workplace concentrations and quantity of hazardous substances.  |
|                                | 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:  |
|                                | 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 :       | 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. 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. 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.   |
|--|---|
| Colour :                                       | Grey.   |
| Odour :  | 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: 38°C (100.4°F)  |
| Evaporation rate :                             | Testing not relevant or not possible due to nature of the product.  |
| Flammability :                                 | Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidising materials.<br>Slightly flammable in the presence of the following materials or conditions: reducing materials and alkalis. |
| Lower and upper explosive (flammable) limits : | 0.6 - 7.6 vol %   |
| Vapour pressure :                              | Testing not relevant or not possible due to nature of the product.  |
| Vapour density :                               | Testing not relevant or not possible due to nature of the product.  |



# **SECTION 9: Physical and chemical properties**

| Specific gravity :               | 0.935 g/cm³  |
|----------------------------------|--|
| Solubility(ies) :                | Partially soluble in the following materials: diethyl ether.<br>Insoluble in the following materials: cold water and hot water.  |
| Partition coefficient (LogKow) : | Testing not relevant or not possible due to nature of the product.   |
| Auto-ignition temperature :      | Lowest known value: >220°C (>428°F) (white spirit).  |
| 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 :           | Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidising materials.<br>Slightly explosive in the presence of the following materials or conditions: reducing materials and moisture. |
| Oxidising properties :           | Testing not relevant or not possible due to nature of the product.   |
| 9.2 Other information            |  |
| Solvent(s) % by weight :         | Weighted average: 54 %   |
| Water % by weight :              | Weighted average: 0 %  |

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

VOC content :

Solvent Gas :

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

478 g/l (Measured)

Weighted average: 0.098 m3/l

#### **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 pressurise, 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: oxidising materials and acids. Reactive or incompatible with the following materials: reducing materials, organic materials and moisture.

#### 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 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



# **SECTION 11: Toxicological information**

| Product/ingredient name                     | Result                 | Species | Dose                    | Exposure |
|---|------------------------|---------|-------------------------|----------|
| solvent naphtha (petroleum), light<br>arom. | LC50 Inhalation Vapour | Rat     | 6193 mg/m <sup>3</sup>  | 4 hours  |
|   | LD50 Dermal            | Rabbit  | 3160 mg/kg              | -        |
|   | LD50 Oral              | Rat     | 8400 mg/kg              | -        |
| Solvent naphtha (petroleum), light arom.    | LC50 Inhalation Vapour | Rat     | 6193 mg/m <sup>3</sup>  | 4 hours  |
|   | LD50 Dermal            | Rabbit  | 3160 mg/kg              | -        |
|   | LD50 Oral              | Rat     | 3492 mg/kg              | -        |
| styrene                                     | LC50 Inhalation Gas.   | Rat     | 2770 ppm                | 4 hours  |
|   | LC50 Inhalation Vapour | Rat     | 11800 mg/m <sup>3</sup> | 4 hours  |
|   | LD50 Oral              | Rat     | 2650 mg/kg              | -        |
| 2-butanone oxime                            | LD50 Dermal            | Rabbit  | 1001 mg/kg              | -        |
|   | LD50 Oral              | Rat     | 930 mg/kg               | -        |
| naphthalene                                 | LD50 Dermal            | Rabbit  | >20 g/kg                | -        |
|   | LD50 Oral              | Rat     | 490 mg/kg               | -        |
| cobalt bis(2-ethylhexanoate)                | LD50 Dermal            | Rabbit  | >2000 mg/kg             | -        |
|   | LD50 Oral              | Rat     | 3129 mg/kg              | -        |

#### Acute toxicity estimates

| Product/ingredient name  | Oral<br>mg/kg   | Dermal<br>mg/kg      | Inhalation<br>(gases)<br>ppm | Inhalation<br>(vapours)<br>mg/l | Inhalation<br>(dusts and<br>mists)<br>mg/l |
|--|---|----------------------|------------------------------|---------------------------------|--|
| Hempel's Silvium<br>solvent naphtha (petroleum), light arom.<br>Solvent naphtha (petroleum), light arom.<br>styrene<br>2-butanone oxime<br>naphthalene<br>cobalt bis(2-ethylhexanoate) | 33368.6<br>8400<br>3492<br>2650<br>100<br>490<br>3129 | 3160<br>3160<br>1100 |                              | 11.8                            |  |

#### Irritation/Corrosion

| Product/ingredient name                  | Result                      | Species | Score | Exposure                 |
|--|-----------------------------|---------|-------|--------------------------|
| solvent naphtha (petroleum), light arom. | Eyes - Mild irritant        | Rabbit  | -     | 24 hours 100 microliters |
| Solvent naphtha (petroleum), light       | Eyes - Mild irritant        | Rabbit  | -     | 24 hours 100 microliters |
| arom.                                    |                             |         |       |                          |
|  | Respiratory - Mild irritant | Rabbit  | -     | -                        |
|  | Skin - Moderate irritant    | Rabbit  | -     | -                        |
| styrene                                  | Eyes - Moderate irritant    | Rabbit  | -     | 24 hours 100 milligrams  |
|  | Skin - Irritant             | Rabbit  | -     | -                        |
| 2-butanone oxime                         | Eyes - Severe irritant      | Rabbit  | -     | 100 microliters          |
| naphthalene                              | Skin - Severe irritant      | Rabbit  | -     | 24 hours 0.05 Mililiters |

#### Sensitiser

| Product/ingredient name      | Route of exposure | Species | Result      |
|------------------------------|-------------------|---------|-------------|
| cobalt bis(2-ethylhexanoate) | skin              | Mouse   | Sensitising |

# Mutagenic effects

No known significant effects or critical hazards.

# Carcinogenicity

May cause cancer. Risk of cancer depends on duration and level of exposure.

# **Reproductive toxicity**

No known significant effects or critical hazards.

# **Teratogenic effects**

No known significant effects or critical hazards.

# Specific target organ toxicity (single exposure)



# **SECTION 11: Toxicological information**

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Category 3 |                   | Narcotic effects             |
| white spirit  | Category 3 |                   | Narcotic effects             |
| Solvent naphtha (petroleum), light arom.                                | Category 3 |                   | Respiratory tract irritation |
|   | Category 3 |                   | Narcotic effects             |
| 1,2,4-trimethylbenzene  | Category 3 |                   | Respiratory tract irritation |
| styrene   | Category 3 |                   | Respiratory tract irritation |
| 2-butanone oxime  | Category 1 |                   | upper respiratory tract      |
|   | Category 3 |                   | Narcotic effects             |

# 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) |
| white spirit  | Category 1 | inhalation        | central nervous system (CNS) |
| styrene   | Category 1 | -                 | hearing organs               |
| 2-butanone oxime  | Category 2 | -                 | blood system                 |

#### Aspiration hazard

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

# Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

# Potential chronic health effects

Contains 2-butanone oxime. May produce an allergic reaction.

# 11.2 Information on other hazards

Endocrine disrupting properties :No known data avaliable in our database.Other information :No additional known significant effects or critical hazards.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Sensitisation :

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,<br>isoalkanes, cyclics, aromatics<br>(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 |
| white spirit  | Acute EC50 4.6 - 10 mg/l          | Algae   | 72 hours |
|   | Acute EC50 10 - 20 mg/l           | Daphnia   | 48 hours |
|   | Acute EC50 10 - 30 mg/l           | Fish  | 96 hours |
| solvent naphtha (petroleum), light<br>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 |
| Solvent naphtha (petroleum), light arom.                                      | Acute EC50 2.6 mg/l               | Algaé - 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 |
| styrene   | Chronic NOEC 63 µg/l Fresh water  | Algae - Pseudokirchneriella subcapitata               | 96 hours |
| naphthalene   | Acute EC50 1600 µg/l Fresh water  | Daphnia - Daphnia magna - Neonate                     | 48 hours |
|   | Acute LC50 2350 µg/l Marine water | Crustaceans - Palaemonetes pugio                      | 48 hours |
|   | Acute LC50 213 µg/l Fresh water   | Fish - Melanotaenia fluviatilis - Larvae              | 96 hours |
| cobalt bis(2-ethylhexanoate)  | Acute LC50 0.1 - 1 mg/l           | Fish  | 96 hours |

# 12.2 Persistence and degradability



# **SECTION 12: Ecological information**

| Product/ingredient name   | Test  | Result   | Dose               | Inoculum    |
|---|---|--|--------------------|-------------|
| hydrocarbons, C9-C12, n-alkanes,<br>isoalkanes, cyclics, aromatics<br>(2-25%) | OECD 301F Ready<br>Biodegradability - Manometric<br>Respirometry Test | 74.7 % - Readily - 28 days                             | -                  | -           |
| white spirit  | 301F Ready Biodegradability -<br>Manometric Respirometry Test         | 7 - 74 % - Readily - 28 days                           | -                  | -           |
| solvent naphtha (petroleum), light<br>arom.                                   | -   | >70 % - Readily - 28 days                              | -                  | -           |
| Solvent naphtha (petroleum), light arom.                                      | OECD 301F Ready<br>Biodegradability - Manometric<br>Respirometry Test | 78 % - Readily - 28 days                               | -                  | -           |
|   | -   | >70 % - Readily - 28 days                              | -                  | -           |
| styrene   | -   | >60 % - Readily - 28 days<br>>60 % - Readily - 10 days | -                  | -           |
| Product/ingredient name   | Aquatic half-life   | Photolysis   | Biode              | gradability |
| hydrocarbons, C9-C12, n-alkanes,<br>isoalkanes, cyclics, aromatics<br>(2-25%) | -   | -  | Readily            |             |
| white spirit<br>solvent naphtha (petroleum), light                            | -   | -  | Readily<br>Readily |             |
| arom.<br>Solvent naphtha (petroleum), light<br>arom.                          | -   | -  | Readily            |             |
| styrene   | -   | -  | Readily            |             |

#### 12.3 Bioaccumulative potential

| Product/ingredient name   | LogPow  | BCF        | Potential |
|---|---------|------------|-----------|
| hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | -       | 10 - 2500  | high      |
| white spirit  | 3 - 7.3 | -          | high      |
| solvent naphtha (petroleum), light arom.                                | -       | 10 - 2500  | high      |
| Solvent naphtha (petroleum), light arom.                                | -       | 10 - 2500  | high      |
| styrene   | 2.96    | 13.49      | low       |
| 2-butanone oxime  | 0.63    | 2.5 - 5.8  | low       |
| naphthalene   | 3.4     | 36.5 - 168 | low       |
| cobalt bis(2-ethylhexanoate)  | -       | 15600      | high      |

# 12.4 Mobility in soil

Soil/water partition coefficient<br/>(Koc) :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 | Р | В | Т | 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

No known data avaliable in our database.

# 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 minimised 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



# **SECTION 13: Disposal considerations**

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

Restricted to professional users.

# 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 E2: Hazardous to the aquatic environment - Chronic 2

# National regulations Non-GHS

| List name                                     | Product/ingredient name      | Name on list                      | Classification | Notes |
|---|------------------------------|-----------------------------------|----------------|-------|
| UK Occupational Exposure Limits<br>EH40 - WEL | cobalt bis(2-ethylhexanoate) | cobalt and cobalt compounds as Co | Carc.          | -     |

#### 15.2 Chemical safety assessment



# **SECTION 16: Other information**

| Abbreviations and acronyms :             | EUH statement = CL<br>RRN = REACH Regi<br>DNEL = Derived No  | , Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>.P-specific Hazard statement<br>istration Number  |
|--|--|---|
| Full text of abbreviated H statements :  | H226<br>H228<br>H301<br>H302<br>H304<br>H312<br>H315<br>H315<br>H317<br>H318<br>H319<br>H332<br>H335<br>H336<br>H350<br>H351<br>H360F<br>H361d<br>H370<br>H372<br>H373<br>H400<br>H411<br>H412<br>EUH066   | Flammable liquid and vapour.<br>Flammable solid.<br>Toxic if swallowed.<br>Harmful if swallowed and enters airways.<br>Harmful in contact with skin.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>Causes serious eye damage.<br>Causes serious eye irritation.<br>Harmful if inhaled.<br>May cause respiratory irritation.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>May cause cancer.<br>Suspected of causing cancer.<br>May damage fertility.<br>Suspected of damaging the unborn child.<br>Causes damage to organs.<br>Causes damage to organs through prolonged or repeated exposure.<br>May cause damage to organs through prolonged or repeated exposure.<br>Very toxic to aquatic life.<br>Very toxic to aquatic life with long lasting effects.<br>Toxic to aquatic life with long lasting effects.<br>Harmful to aquatic life with long lasting effects.<br>Repeated exposure may cause skin dryness or cracking. |
| Full text of classifications [CLP/GHS] : | Acute Tox. 3<br>Acute Tox. 4<br>Aquatic Acute 1<br>Aquatic Chronic 1<br>Aquatic Chronic 2<br>Aquatic Chronic 3<br>Asp. Tox. 1<br>Carc. 1B<br>Carc. 2<br>Eye Dam. 1<br>Eye Irrit. 2<br>Flam. Liq. 3<br>Flam. Sol. 2<br>Repr. 1B<br>Repr. 2<br>Skin Sens. 1<br>Skin Sens. 1A<br>STOT RE 1<br>STOT RE 2<br>STOT SE 1<br>STOT SE 3 | ACUTE TOXICITY - Category 3<br>ACUTE TOXICITY - Category 4<br>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3<br>ASPIRATION HAZARD - Category 1<br>CARCINOGENICITY - Category 1<br>CARCINOGENICITY - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>FLAMMABLE LIQUIDS - Category 3<br>FLAMMABLE SOLIDS - Category 2<br>REPRODUCTIVE TOXICITY - Category 1<br>REPRODUCTIVE TOXICITY - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITISATION - Category 1<br>SKIN SENSITISATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1<br>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   |
|--|---|
| CARCINOGENICITY<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>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 Hempel's Silvium

for further advise.



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

| This safe use information is linked to  | : Profes<br>Priorit | ssional spray painting, near-industrial setting<br>y   |
|---|---------------------|--|
| Sector(s) of use                        | : Indust            | rial uses - Professional uses  |
| Product category(ies)                   | : Coatir            | ngs and paints, thinners, paint removers   |
| Operational conditions Place of use     | : Indooi            | or outdoor use   |
| Range of application/Process conditions | Assun               | nes a good standard of occupational hygiene and safety management has been implemented.<br>nes that activities are undertaken with appropriate and well maintained equipment by trained<br>nnel operating under supervision. |
| Others                                  | : Deper             | nding on actual conditions of application. Please consult your local HEMPEL representative   |

**Risk management measures (RMM)** 

| Contributing activity  | Process<br>category | Maximum<br>duration  | Ventilation                                 |       | Respiratory  | Eye  | Hands   |
|--|---------------------|----------------------|---|-------|--|--|---|
| activity   | (ies)               | Guration             | Type and air changes per<br>hour            |       |  |  |   |
| Preparation of material for application  | PROC05              | More than 4<br>hours | Good general room<br>ventilation - Outdoors | 3 - 5 | Wear a respirator<br>conforming to EN140 with<br>an assigned protection<br>factor of at least 10.                                    | Use eye protection<br>according to EN 166. | Wear chemical-resistant<br>gloves (tested to EN374)<br>in combination with<br>specific activity training. |
| Loading of application<br>equipment and handling<br>of coated parts before<br>curing | PROC08b             | More than 4<br>hours | Good general room<br>ventilation - Outdoors | 3 - 5 | Wear a respirator<br>conforming to EN140 with<br>an assigned protection<br>factor of at least 10.                                    | Use eye protection<br>according to EN 166. | Wear chemical-resistant<br>gloves (tested to EN374)<br>in combination with<br>specific activity training. |
| Industrial application of<br>coatings by spraying                                    | PROC07              | More than 4<br>hours | Good general room<br>ventilation - Outdoors | 3 - 5 | Use a properly fitted, air-<br>purifying or air-fed<br>respirator. EN 14594 with<br>an assigned protection<br>factor of at least 20. | Use eye protection<br>according to EN 166. | Wear chemical-resistant<br>gloves (tested to EN374)<br>in combination with<br>specific activity training. |
| Film formation - force<br>drying, stoving and other<br>technologies                  | PROC04              | More than 4<br>hours | Good general room<br>ventilation - Outdoors | 3 - 5 | None   | Use eye protection according to EN 166.    | Wear suitable gloves tested to EN374.   |
| Cleaning   | PROC05              | More than 4<br>hours | Good general room<br>ventilation - Outdoors | 3 - 5 | Wear a respirator<br>conforming to EN140 with<br>an assigned protection<br>factor of at least 10.                                    | Use eye protection<br>according to EN 166. | Wear chemical-resistant<br>gloves (tested to EN374)<br>in combination with<br>specific activity training. |
| Waste management   | PROC08b             | More than 4<br>hours | Good general room<br>ventilation - Outdoors | 3 - 5 | Wear a respirator<br>conforming to EN140 with<br>an assigned protection<br>factor of at least 10.                                    | Use eye protection<br>according to EN 166. | Wear chemical-resistant<br>gloves (tested to EN374)<br>in combination with<br>specific activity training. |

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.