Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 23 October 2023



Version

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

| 1.1 Product identifier | |
|--|---|
| Product name | : AMERSHIELD SAFETY RED 1979 RESIN |
| Product code | : 00359050 |
| Product description | : |
| Product type | : Liquid. |
| Other means of identification | : Not available. |
| .2 Relevant identified uses of the substance or mixture and uses advised against | |
| Product use | : Professional applications, Used by spraying. |
| Use of the substance/ mixture | : Coating. |
| Uses advised against | : Product is not intended, labelled or packaged for consumer use. |

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person :

: Product.Stewardship.EMEA@ppg.com

responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements Hazard pictograms



Signal word

English (GB)

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| | | | |

| Hazard statements | 1 | Flammable liquid and vapour. |
|---|-----|--|
| | | May cause an allergic skin reaction. |
| | | May cause drowsiness or dizziness. |
| | | Harmful to aquatic life with long lasting effects. |
| Precautionary statements | | |
| Prevention | : | Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour. |
| Response | 1 | IF INHALED: Call a POISON CENTER or doctor if you feel unwell. |
| Storage | : | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | | P280, P210, P273, P261, P304 + P312, P501 |
| Supplemental label elements | : | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |
| Annex XVII - Restrictions on the manufacture, olacing on the market and use of certain dangerous substances, mixtures and articles | : | Not applicable. |
| Special packaging requirem | ien | ts |
| Containers to be fitted with child-resistant fastenings | | Not applicable. |
| Tactile warning of danger | : | Not applicable. |
| .3 Other hazards | | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : | 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 | : | Prolonged or repeated contact may dry skin and cause irritation. |

SECTION 3: Composition/information on ingredients

Mixture

| ≥10 - ≤25 ≥5.0 - ≤10 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 Flam. Liq. 3, H226 STOT SE 3, H336 | [1] [2] |
|-------------------------|---|--|
| ≥5.0 - ≤10 | • • | [1] [2] |
| | | |
| ≤1.0 | Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | [1] |
| <1.0 | Carc. 2, H351 Asp. Tox. 1, H304 | [1] [2] |
| r | | Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Carc. 2, H351 Asp. Tox. 1, H304 |

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|---|--|--------------------------------|-------------------|
| SECTION 3: Composition/information on ingredients | | | |

| | | | Aquatic Chronic 2, H411 EUH066 | |
|-----------------------------|---|-------|--|-----|
| pentane-2,4-dione | REACH #: 01-2119458968-15 EC: 204-634-0 CAS: 123-54-6 Index: 606-029-00-0 | <1.0 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 | [1] |
| 2-hydroxyethyl methacrylate | EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X | ≤0.30 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 | [1] |
| | | | 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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. |
|-------------------------------|---|
| 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. |
| 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 the container or label. Keep person warm and at rest. Do NOT induce vomiting. |
| 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 symptor | ind effects, both acute and delayed |
| Potential acute health effect | |
| Eye contact | No known significant effects or critical hazards. |
| Inhalation | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact | Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. |
| Ingestion | Can cause central nervous system (CNS) depression. |
| Over-exposure signs/symp | <u>15</u> |
| Eye contact | No specific data. |

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|--|--|
| SECTION 4: First a | aid measures |
| Inhalation | : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion | : No specific data. |
| 4.3 Indication of any imm | ediate medical attention and special treatment needed |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |

SECTION 5: Firefighting measures

| 5.1 Extinguishing media Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
|--|--|
| Unsuitable extinguishing media | : Do not use water jet. |

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 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 halogenated compounds metal oxide/oxides |
| 5.3 Advice for firefighters | |
| Special protective actions for fire-fighters | 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency | : No action shall be taken involving any personal risk or without suitable training. |
|-------------------|---|
| personnel | Evacuate surrounding areas. Keep unnecessary and unprotected personnel from |
| | entering. Do not touch or walk through spilt material. Shut off all ignition sources. |
| | No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. |
| | Provide adequate ventilation. Wear appropriate respirator when ventilation is |
| | inadequate. Put on appropriate personal protective equipment. |
| | |

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|--|--|--|
| SECTION 6: Accidental release measures | | |
| For emergency responders | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". | |
| 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 | |
| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. | |
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. | |
| 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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--|--|
| -butyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. |
| 2-methoxy-1-methylethyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 548 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 274 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | EU OEL (Europe). TWA: 8 ppm TWA: 50 mg/m³ |
| Product/ingredient name | Exposure indices |

Recommended monitoring : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|-------------------------|------|-----------------------|------------------------|--------------------|----------|
| p -butyl acetate | DNEL | Long term Inhalation | 300 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 300 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 11 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Oral | 2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 2 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 6 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 11 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 35.7 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 300 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 300 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 300 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 3.4 mg/kg bw/day | General population | Systemic |

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SECTION 8: Exposure controls/personal protection

| | | • | | | |
|-----------------------------|------|-----------------------|------------------------|--------------------|----------|
| | DNEL | Long term Dermal | 7 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 12 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 48 mg/m ³ | Workers | Systemic |
| 2-methoxy-1-methylethyl | DNEL | Long term Inhalation | 33 mg/m³ | General population | Local |
| acetate | | | | | |
| | DNEL | Long term Inhalation | 33 mg/m³ | General population | Systemic |
| | DNEL | Long term Oral | 36 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 275 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 320 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 550 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 796 mg/kg bw/day | Workers | Systemic |
| Hydrocarbons, C10-C13, | DNEL | Long term Oral | 2.1 mg/kg bw/day | General population | Systemic |
| aromatics, >1% naphthalene | | | | | |
| | DMEL | Long term Inhalation | 3.25 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 10.2 mg/m ³ | General population | Systemic |
| | DMEL | Long term Dermal | 23.4 mg/kg bw/day | Workers | Systemic |
| | DMEL | Long term Dermal | 42.4 mg/kg bw/day | General population | Systemic |
| pentane-2,4-dione | DNEL | Long term Oral | 7 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 12 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 84 mg/m ³ | Workers | Systemic |
| 2-hydroxyethyl methacrylate | DNEL | Long term Oral | 0.83 mg/kg bw/day | General population | Systemic |
| - | DNEL | Long term Dermal | 0.83 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 1.3 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 2.9 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 4.9 mg/m ³ | Workers | Systemic |
| | | | | | |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---------------------------------|------------------------|-------------------|---------------|
| n-butyl acetate | Fresh water | 0.18 mg/l | - |
| | Marine water | 0.018 mg/l | - |
| | Fresh water sediment | 0.981 mg/kg | - |
| | Marine water sediment | 0.0981 mg/kg | - |
| | Sewage Treatment Plant | 35.6 mg/l | - |
| | Soil | 0.0903 mg/kg | - |
| 2-methoxy-1-methylethyl acetate | Fresh water | 0.635 mg/l | - |
| | Marine water | 0.0635 mg/l | - |
| | Fresh water sediment | 3.29 mg/kg | - |
| | Marine water sediment | 0.329 mg/kg | - |
| | Soil | 0.29 mg/kg | - |
| | Sewage Treatment Plant | | - |
| pentane-2,4-dione | Fresh water | 0.026 mg/l | - |
| | Fresh water sediment | 0.155 mg/kg dwt | - |
| | Marine water | 0.0026 mg/l | - |
| | Marine water sediment | 0.0155 mg/kg dwt | - |
| | Soil | 0.01582 mg/kg dwt | - |
| | Sewage Treatment Plant | 1.32 mg/l | - |

| 8.2 Exposure controls | |
|-------------------------------------|---|
| Appropriate engineering controls | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| Individual protection measu | <u>ires</u> |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |

| English (GB) | United Kingdom (UK) | 7/16 |
|--------------|---------------------|------|
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| SECTION 8: Expos | ure controls/personal protection | |
| Eye/face protection | : Safety glasses with side shields. | |

| Skin protection | | |
|---------------------------------|--|---|
| Hand protection | worn at al necessary during use noted that glove mar protection frequently (breakthro When onl (breakthro The user product is | Presistant, impervious gloves complying with an approved standard should be I times when handling chemical products if a risk assessment indicates this is A. Considering the parameters specified by the glove manufacturer, check that the gloves are still retaining their protective properties. It should be the time to breakthrough for any glove material may be different for different nufacturers. In the case of mixtures, consisting of several substances, the time of the gloves cannot be accurately estimated. When prolonged or repeated contact may occur, a glove with a protection class of 6 bugh time greater than 480 minutes according to EN 374) is recommended. y brief contact is expected, a glove with a protection class of 2 or higher bugh time greater than 30 minutes according to EN 374) is recommended. must check that the final choice of type of glove selected for handling this the most appropriate and takes into account the particular conditions of use, ed in the user's risk assessment. |
| Gloves | For prolor | nged or repeated handling, use the following type of gloves: |
| | | ended: butyl rubber sed: nitrile rubber, Chloroprene |
| Body protection | performed handling t static prot | protective equipment for the body should be selected based on the task being and the risks involved and should be approved by a specialist before his product. When there is a risk of ignition from static electricity, wear anti- ective clothing. For the greatest protection from static discharges, clothing clude anti-static overalls, boots and gloves. |
| Other skin protection | based on | te footwear and any additional skin protection measures should be selected the task being performed and the risks involved and should be approved by a before handling this product. |
| Respiratory protection | hazards o are expos certified re with an ap | r selection must be based on known or anticipated exposure levels, the f the product and the safe working limits of the selected respirator. If workers ed to concentrations above the exposure limit, they must use appropriate, espirators. Use a properly fitted, air-purifying or air-fed respirator complying oproved standard if a risk assessment indicates this is necessary. Wear a conforming to EN140. Filter type: organic vapour (Type A) and particulate |
| Environmental exposure controls | they comp cases, fur | s from ventilation or work process equipment should be checked to ensure bly with the requirements of environmental protection legislation. In some ne scrubbers, filters or engineering modifications to the process equipment cessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| <u>Appearance</u> | |
|--|---|
| Physical state | : Liquid. |
| Colour | : Red. |
| Odour | : Characteristic. |
| Odour threshold | : Not available. |
| Melting point/freezing point | May start to solidify at the following temperature: -50°C (-58°F) This is based on data for the following ingredient: ethyl 3-ethoxypropionate. Weighted average: -83.67°C (-118.6°F) |
| Initial boiling point and boiling range | : >37.78°C (>100°F) |
| Flammability (solid, gas) | : liquid |
| Upper/lower flammability or explosive limits | : Greatest known range: Lower: 1.05% Upper: 9.8% (ethyl 3-ethoxypropionate) |
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SECTION 9: Physical and chemical properties

Flash point

: Closed cup: 43.33°C (110°F)

| Α | Auto-ignition temperature : | | | | | | |
|---|--|------|------|--------|--|--|--|
| | Ingredient name | °C | °F | Method | | | |
| | 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl) -3-hydroxynaphthalene-2-carboxamide | >140 | >284 | | | | |

| Decomposition temperature | - E |
|---------------------------|-------------------------------------|
| рН | : Not applicable. |
| | Not applicable. insoluble in water. |
| Viscosity | : Kinematic (40°C): >21 mm²/s |

Solubility(ies)

| Solubility(ies) | 4 | |
|---------------------|-------------|--|
| Media | Result | |
| cold water | Not soluble | |
| Miscible with water | : No. | |

Partition coefficient: n-octanol/ : Not applicable. water

2

Vapour pressure

| | Va | pour Pres | sure at 20°C | V | apour pres | sure at 50°C |
|--|---|-------------------|----------------|-------|-----------------------|--------------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| p-butyl acetate | 11.25 | 1.5 | DIN EN 13016-2 | | | |
| Relative density | y : 1.25 | | | | | |
| Vapour density | Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). V average: 4.24 (Air = 1) | | | | hyl acetate). Weighte | |
| Explosive properties | : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible. | | | | | |
| Oxidising properties Particle characteristics | : Product does not present an oxidizing hazard. | | | | | |
| Median particle size | : Not | : Not applicable. | | | | |

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 | : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8. |
| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 10.6 Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/ oxides |

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|------------------------|-----------------------|--------------|----------|
| -butyl acetate | LC50 Inhalation Vapour | Rat | >21.1 mg/l | 4 hours |
| - | LC50 Inhalation Vapour | Rat | 2000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 10.768 g/kg | - |
| 2-methoxy-1-methylethyl acetate | LC50 Inhalation Vapour | Rat | 30 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 6190 mg/kg | - |
| Reaction mass of bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl | LD50 Dermal | Rat | >3170 mg/kg | - |
| 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate | | | | |
| | LD50 Oral | Rat - Male, Female | 3230 mg/kg | - |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| pentane-2,4-dione | LC50 Inhalation Vapour | Rat | 5.1 mg/l | 4 hours |
| | LD50 Dermal | Rat | 790 mg/kg | - |
| | LD50 Oral | Rat | 570 mg/kg | - |
| 2-hydroxyethyl methacrylate | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 5050 mg/kg | - |

Conclusion/Summary :

: There are no data available on the mixture itself.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|---|---|---------------------------------|--|--|
| MERSHIELD SAFETY RED 1979 RESIN n-butyl acetate 2-methoxy-1-methylethyl acetate Reaction mass of bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate pentane-2,4-dione 2-hydroxyethyl methacrylate | N/A 10768 6190 3230 570 5050 | 159752.5 N/A N/A N/A 790 N/A | N/A N/A N/A N/A N/A | 1031.3 N/A 30 N/A 5.1 N/A | N/A N/A N/A N/A N/A |

Irritation/Corrosion

| Conclusion/Summary | : Not available. |
|---------------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Eyes | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Sensitisation | |
| Conclusion/Summary | |
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Mutagenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Carcinogenicity | |
| | |

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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|-------------------------------|---|-----------------------------------|--------------------------------|-------------------|---|
| SECTIO | Ν | 11: Toxicological informat | ion | | - |

| Conclusion/Summary | : There are no data available on the mixture itself. |
|---------------------------|--|
| Reproductive toxicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Teratogenicity | |
| Conclusion/Summary | - 1 · · · · · · · · · · · · · · · · · · |

There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------|------------|-------------------|------------------|
| n-butyl acetate | Category 3 | | Narcotic effects |
| 2-methoxy-1-methylethyl acetate | Category 3 | | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Product/ingredient name | Result |
|---|--------------------------------|
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | ASPIRATION HAZARD - Category 1 |

| Information on likely routes of exposure | ot available. | |
|--|---|----------|
| Potential acute health effects | | |
| Eye contact | o known significant effects or critical hazards. | |
| Inhalation | an cause central nervous system (CNS) depression. May cause drowsine zziness. | ess or |
| Skin contact | efatting to the skin. May cause skin dryness and irritation. May cause an kin reaction. | allergic |
| Ingestion | an cause central nervous system (CNS) depression. | |
| | chemical and toxicological characteristics | |
| Eye contact | o specific data. | |
| Inhalation | dverse symptoms may include the following: ausea or vomiting eadache owsiness/fatigue zziness/vertigo nconsciousness | |
| Skin contact | dverse symptoms may include the following: itation dness yness acking | |
| Ingestion | o specific data. | |
| | | |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Short term exposure | |
|-----------------------------|------------------|
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| English (GB) | |

| United Kingdom (UK) | |
|---------------------|--|
|---------------------|--|

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Potential chronic health effects

Not available.

| Conclusion/Summary | : Not available. |
|-----------------------|---|
| General | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|---------------------------------|------------------------------------|----------|
| -butyl acetate | Acute LC50 18 mg/l | Fish | 96 hours |
| 2-methoxy-1-methylethyl acetate | Acute LC50 134 mg/l Fresh water | Fish - Trout - Oncorhynchus mykiss | 96 hours |
| Reaction mass of bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate | EC50 1.68 mg/l | Algae | 72 hours |
| | LC50 0.9 mg/l | Fish | 96 hours |
| Conclusion/Summary | : Not available. | • | |

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|--|-----------------------|--------------------------|------|----------|
| -butyl acetate | TEPA and OECD 301D | 83 % - Readily - 28 days | - | - |
| 2-methoxy-1-methylethyl acetate | - | 83 % - Readily - 28 days | - | - |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | - | 60.74 % - 28 days | - | - |

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|--------------------|
| -butyl acetate 2-methoxy-1-methylethyl acetate | - | - | Readily Readily |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------------|------------|------------|
| -butyl acetate 2-methoxy-1-methylethyl acetate | 2.3 1.2 | - | Low Low |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | | 99 to 5780 | High |
| pentane-2,4-dione 2-hydroxyethyl methacrylate | 0.68 0.42 | - | Low Low |

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SECTION 12: Ecological information

12.4 Mobility in soil

| Soil/water partition coefficient (Koc) | : Not available. |
|--|------------------|
| Mobility | : Not available. |

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
|---------------------|--|
| Hazardous waste | : Yes. |

Hazardous waste

| Waste catalogue |
|-----------------|
|-----------------|

| Waste code | Waste designation |
|---------------------|--|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| ackaging | |
| Methods of disposal | 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. |

| Type of packaging | | Waste catalogue |
|---------------------|--|---|
| Container | 15 01 06 | mixed packaging |
| Special precautions | taken when Empty conta residues ma container. I thoroughly i | al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers. |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|---------|--------|--------|--------|
| 14.1 UN number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | | | | |
| English (GB) United Kingdom (UK) | | | 13/16 | |

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|--|-------|--|--|-------------------------|-----------------|
| SECTION 1 | 4: T | ransport informa | ition | | |
| 14.5 Environmental hazards | | No. | Yes. | No. | No. |
| Marine pollutar substances | it | Not applicable. | Not applicable. | Not applicable. | Not applicable. |
| Additional info | matio | <u>on</u> | | | |
| ADR/RID: None identified.Tunnel code: (D/E)ADN: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.IMDG: None identified.IATA: None identified. | | | | ien transported in tank | |
| 14.6 Special pre user | cauti | upright and s | vithin user's premises: a secure. Ensure that person an accident or spillage. | , , | |
| 14.7 Transport i according to IM instruments | | k : Not available | 9. | | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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SECTION 16: Other information

| Abbreviations and | : ATE = Acute Toxicity Estimate |
|-------------------|---|
| acronyms | GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and |
| - | Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 |
| | No. 720 and amendments |
| | DMEL = Derived Minimal Effect Level |
| | DNEL = Derived No Effect Level |
| | EUH statement = GB CLP-specific Hazard statement |
| | N/A = Not available |
| | PBT = Persistent, Bioaccumulative and Toxic |
| | PNEC = Predicted No Effect Concentration |
| | RRN = REACH Registration Number |
| | SGG = Segregation Group |
| | v D.D. = V (and Densistent and V (and Discourse visiting |

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

| Classification | Justification | |
|-------------------------|-----------------------|--|
| Flam. Liq. 3, H226 | On basis of test data | |
| Skin Sens. 1, H317 | Calculation method | |
| STOT SE 3, H336 | Calculation method | |
| Aquatic Chronic 3, H412 | Calculation method | |

Full text of abbreviated H statements

| ⊮ 226 | Flammable liquid and vapour. |
|--------------|---|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361f | Suspected of damaging fertility. |
| 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. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Full text of classifications

| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
|---------------------------------|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
| History | |
| Date of issue/ Date of revision | : 23 October 2023 |
| Date of previous issue | e : 9 November 2022 |
| Prepared by | : EHS |

English (GB)

| Conforms to Regulation (EC) No. 19 | 907/2006 (REACH), Annex II, as amended b | y UK REACH Regulation SI 2019/758 |
|------------------------------------|--|-----------------------------------|
|------------------------------------|--|-----------------------------------|

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SECTION 16: Other information

Version

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