# SAFETY DATA SHEET

**Date of issue/Date of revision** : 20 November 2026 **Version** : 2.01

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

### 1.1 Product identifier

**Product name** : AMERSHIELD BLACK RESIN

**Product code** : 00333800

**Other means of identification**

Not available.

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

**Product use** : Industrial 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 responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

### 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 Regulation (EC) No. 1272/2008 [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 Regulation (EC) 1272/2008 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

## SECTION 2: Hazards identification

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : 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.

**Response** : IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

**Storage** : Store in a well-ventilated place. Keep container tightly closed.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

P280, P210, P273, P304 + P312, P403 + P233, P501

**Hazardous ingredients** : 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; 4-isocyanatosulphonyltoluene and 2-hydroxyethyl methacrylate

**Supplemental label elements** : Contains isocyanates. May produce an allergic reaction.

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

**Special packaging requirements**

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

**Tactile warning of danger** : Not applicable.

### 2.3 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.

**Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.** : Based on available data, the classification criteria are not met.

**Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % by weight | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| Wollastonite | EC: 237-772-5<br>CAS: 13983-17-0 | ≥25 - ≤50 | Not classified. | - | [2] |
| n-butyl acetate | REACH #: 01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≥10 - ≤18 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 | - | [1] [2] |
| 2-methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6<br>Index: 607-195-00-7 | ≥5.0 - ≤10 | Flam. Liq. 3, H226<br>STOT SE 3, H336 | - | [1] [2] |
| ethyl 3-ethoxypropionate | REACH #: 01-2119463267-34<br>EC: 212-112-9<br>CAS: 763-69-9 | ≤1.9 | Flam. Liq. 3, H226<br>EUH066 | - | [1] [2] |
| Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | REACH #: 01-2119491304-40<br>EC: 915-687-0<br>CAS: 1065336-91-5 | ≤1.0 | Skin Sens. 1A, H317<br>Repr. 2, H361f<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | M [Acute] = 1<br>M [Chronic] = 1 | [1] |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | REACH #: 01-2119451151-53<br>EC: 926-273-4<br>CAS: 64742-94-5 | <1.0 | Carc. 2, H351<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066 | EUH066: C ≥ 20% | [1] [2] |
| pentane-2,4-dione | REACH #: 01-2119458968-15<br>EC: 204-634-0<br>CAS: 123-54-6<br>Index: 606-029-00-0 | <1.0 | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331 | ATE [Oral] = 570 mg/kg<br>ATE [Dermal] = 790 mg/kg<br>ATE [Inhalation (vapours)] = 5.1 mg/l | [1] [2] |
| 4-isocyanatosulphonyltoluene | REACH #: 01-2119980050-47<br>EC: 223-810-8<br>CAS: 4083-64-1<br>Index: 615-012-00-7 | ≤0.30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>STOT SE 3, H335<br>EUH014 | Skin Irrit. 2, H315: C ≥ 5%<br>Eye Irrit. 2, H319: C ≥ 5%<br>STOT SE 3, H335: C ≥ 5% | [1] |
| 2-hydroxyethyl methacrylate | REACH #: 01-2119490169-29<br>EC: 212-782-2<br>CAS: 868-77-9<br>Index: 607-124-00-X | ≤0.30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317 | - | [1] [2] |

## SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|---|---|---|---|
| | | | **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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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 symptoms and effects, both acute and delayed

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

**Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

**Ingestion** : Can cause central nervous system (CNS) depression.

**Over-exposure signs/symptoms**

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

## SECTION 4: First aid measures

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**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
metal oxide/oxides

### 5.3 Advice for firefighters

**Special precautions 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. 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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. 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. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**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".

## SECTION 6: Accidental release measures

**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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**Special provisions** : 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**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.

## SECTION 7: Handling and storage

**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** : Do not store above the following temperature: 50°C (122°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.
This product contains material which falls under the synthetic polymer microparticle definition. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Precautions should be taken to minimise exposure to atmospheric humidity or water. $CO_2$ will be formed, which, in closed containers, could result in pressurisation.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## SECTION 8: Exposure controls/personal protection

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).

### 8.1 Control parameters

**Occupational exposure limits**

| Product/ingredient name | Exposure limit values |
|---|---|
| Wollastonite | **ACGIH TLV (United States, 1/2026)** A4.<br>TWA 8 hours: 1 mg/m³. Form: Inhalable fraction. |
| n-butyl acetate | **EU OEL (Europe, 1/2022)**<br>STEL 15 minutes: 150 ppm.<br>STEL 15 minutes: 723 mg/m³.<br>TWA 8 hours: 241 mg/m³.<br>TWA 8 hours: 50 ppm. |
| 2-methoxy-1-methylethyl acetate | **EU OEL (Europe, 1/2022)** Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 275 mg/m³.<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 550 mg/m³. |
| ethyl 3-ethoxypropionate | **IPEL (-)**<br>TWA: 50 ppm.<br>STEL: 100 ppm. |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | **EU OEL (Europe)**<br>TWA: 8 ppm.<br>TWA: 50 mg/m³. |
| pentane-2,4-dione | **ACGIH TLV (United States, 1/2026)** Absorbed through skin.<br>TWA 8 hours: 25 ppm. |
| 2-hydroxyethyl methacrylate | **IPEL (-, 10/2017)** Absorbed through skin.<br>TWA: 1 ppm.<br>STEL: 3 ppm. |

## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

| Product/ingredient name | Exposure | | Value |
|---|---|---|---|
| n-butyl acetate | DNEL - Workers - Long term - Inhalation | *Systemic* | 300 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 11 mg/m³ |
| | DNEL - General population - Long term - Oral | *Systemic* | 2 mg/kg bw/day |
| | DNEL - General population - Short term - Oral | *Systemic* | 2 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Systemic* | 3.4 mg/kg bw/day |
| | DNEL - General population - Short term - Dermal | *Systemic* | 6 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 7 mg/kg bw/day |
| | DNEL - Workers - Short term - Dermal | *Systemic* | 11 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 12 mg/m³ |
| | DNEL - General population - Long term - Inhalation | *Local* | 35.7 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 48 mg/m³ |
| | DNEL - General population - Short term - Inhalation | *Local* | 300 mg/m³ |
| | DNEL - General population - Short term - Inhalation | *Systemic* | 300 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Local* | 300 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Local* | 600 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Systemic* | 600 mg/m³ |
| 2-methoxy-1-methylethyl acetate | DNEL - General population - Long term - Inhalation | *Local* | 33 mg/m³ |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 33 mg/m³ |
| | DNEL - General population - Long term - Oral | *Systemic* | 36 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 275 mg/m³ |
| | DNEL - General population - Long term - Dermal | *Systemic* | 320 mg/kg bw/day |
| | DNEL - Workers - Short term - Inhalation | *Local* | 550 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 796 mg/kg bw/day |
| ethyl 3-ethoxypropionate | DNEL - Workers - Long term - Dermal | *Local* | 102 mg/cm² |
| | DNEL - General population - Long term - Oral | *Systemic* | 1.2 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Systemic* | 3.1 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 8.85 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 72.6 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 610 mg/m³ |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | DNEL - General population - Long term - Oral | *Systemic* | 2.1 mg/kg bw/day |
| | DMEL - Workers - Long term - Inhalation | *Systemic* | 3.25 mg/m³ |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 10.2 mg/m³ |

## SECTION 8: Exposure controls/personal protection

| | | | |
|---|---|---|---|
| | DMEL - Workers - Long term - Dermal | *Systemic* | 23.4 mg/kg bw/day |
| | DMEL - General population - Long term - Dermal | *Systemic* | 42.4 mg/kg bw/day |
| pentane-2,4-dione | DNEL - General population - Long term - Oral | *Systemic* | 7 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 12 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 84 mg/m³ |
| 4-isocyanatosulphonyltoluene | DNEL - General population - Long term - Oral | *Systemic* | 0.46 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Systemic* | 0.46 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 0.8 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 0.92 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 3.24 mg/m³ |
| 2-hydroxyethyl methacrylate | DNEL - General population - Long term - Oral | *Systemic* | 0.83 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Systemic* | 0.83 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 1.39 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 1.45 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 4.9 mg/m³ |

**PNECs**

| Product/ingredient name | Compartment Detail - Method | Value |
|---|---|---|
| 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 | 100 mg/l |
| ethyl 3-ethoxypropionate | Fresh water - Assessment Factors | 0.0609 mg/l |
| | Marine water - Assessment Factors | 0.00609 mg/l |
| | Fresh water sediment | 0.419 mg/kg |
| | Marine water sediment | 0.0419 mg/kg |
| | Soil | 0.048 mg/kg |
| | Sewage Treatment Plant - Assessment Factors | 50 mg/l |
| 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 |
| 4-isocyanatosulphonyltoluene | Fresh water - Assessment Factors | 0.03 mg/l |
| | Marine water - Assessment Factors | 0.003 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 0.4 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 0.172 mg/kg dwt |
| | Marine water sediment - Equilibrium Partitioning | 0.017 mg/kg dwt |
| | Soil - Equilibrium Partitioning | 0.017 mg/kg dwt |

### 8.2 Exposure controls

## SECTION 8: Exposure controls/personal protection

**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 measures**

**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.

**Eye/face protection** : Safety glasses with side shields. Use eye protection according to EN 166.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Gloves** : butyl rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

**Other skin protection** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : 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 workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

**Restrictions on use** : Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

**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

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

**Appearance**

**Physical state** : Liquid.

**Colour** : Black.

**Odour** : Characteristic.

**Melting point/freezing point** : Not determined.

**Boiling point or initial boiling point and boiling range** : >37.78°C

**Flammability** : Not determined. There are no data available on the mixture itself.

**Lower and upper explosion limit** : Not available.

**Flash point** : Closed cup: 43.33°C

**Auto-ignition temperature** :

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| 2-methoxy-1-methylethyl acetate | 333 | 631.4 | DIN 51794 |

**Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).

**pH** : Not applicable. insoluble in water.

**Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): >21 $mm^2/s$

**Solubility** :

| Media | Result |
|---|---|
| cold water | Not soluble |

**Solubility in water** : 2.5 g/l

**Partition coefficient n-octanol/water (log Pow)** : Not applicable.

**Vapour pressure** : 2.2 kPa (16.5 mm Hg)

**Relative density** : 1.29

**Relative vapour density** : Not available.

**Particle characteristics**

**Median particle size** : Not applicable.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

**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** : Product does not present an oxidizing hazard.

### 9.2.2 Other safety characteristics

**Evaporation rate** : 0.89 (butyl acetate = 1)

No additional information.

## 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** : In a fire, hazardous decomposition products may be produced.
Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials** : Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.

**10.6 Hazardous decomposition products** : Depending on conditions, 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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

May cause an allergic skin reaction.
May cause drowsiness or dizziness.

**Acute toxicity**

| Product/ingredient name | Result | Dose / Exposure |
|---|---|---|
| n-butyl acetate | Rabbit - Dermal - LD50 | >17600 mg/kg |
| | Rat - Oral - LD50 | 10.768 g/kg |
| | Rat - Inhalation - LC50 Vapour | 2000 ppm [4 hours] |
| | Rat - Inhalation - LC50 Vapour | >21.1 mg/l [4 hours] |
| 2-methoxy-1-methylethyl acetate | Rabbit - Dermal - LD50 | >5 g/kg |
| | Rat - Oral - LD50 | 6190 mg/kg |
| | Rat - Inhalation - LC50 Vapour | 30 mg/l [4 hours] |
| ethyl 3-ethoxypropionate | Rabbit - Dermal - LD50 | >5 g/kg |
| | Rat - Oral - LD50 | 3200 mg/kg |
| | *Toxic effects*: Behavioral - Ataxia | |
| Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Rat - Male, Female - Oral - LD50 | 3230 mg/kg |
| | Rat - Dermal - LD50 | >3170 mg/kg |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | Rat - Oral - LD50 | >5000 mg/kg |
| | Rabbit - Dermal - LD50 | >2000 mg/kg |
| pentane-2,4-dione | Rat - Oral - LD50 | 570 mg/kg |
| | Rat - Dermal - LD50 | 790 mg/kg |
| | Rat - Inhalation - LC50 Vapour | 5.1 mg/l [4 hours] |
| 4-isocyanatosulphonyltoluene | Rat - Oral - LD50 | 2234 mg/kg |
| | *Toxic effects*: Gastrointestinal - Other changes | |
| 2-hydroxyethyl methacrylate | Rat - Oral - LD50 | 5050 mg/kg |
| | *Toxic effects*: Behavioral - Coma | |
| | Rabbit - Dermal - LD50 | >5 g/kg |

**Acute toxicity estimates**

## SECTION 11: Toxicological information

| Route | ATE value |
|---|---|
| Dermal<br>Inhalation (vapours) | 154470.39 mg/kg<br>997.21 mg/l |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Irritation/Corrosion**

**Conclusion/Summary**

**Skin** : Based on available data, the classification criteria are not met.

**Eyes** : Based on available data, the classification criteria are not met.

**Respiratory** : Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization**

**Conclusion/Summary**

**Skin** : May cause an allergic skin reaction.

**Respiratory** : Based on available data, the classification criteria are not met.

**Mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**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 |
| 4-isocyanatosulphonyltoluene | Category 3 | - | Respiratory tract irritation |

**Conclusion/Summary** :

May cause drowsiness or dizziness.

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

Based on available data, the classification criteria are not met.

**Aspiration hazard**

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

**Conclusion/Summary** :

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

**Ingestion** : Can cause central nervous system (CNS) depression.

**Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

**Eye contact** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

## SECTION 11: Toxicological information

**Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

**Ingestion** : No specific data.

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

**Eye contact** : No specific data.

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

**Short term exposure**

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

**Potential chronic health effects**

**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** : Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Avoid contact with skin and clothing.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Dose / Exposure |
|---|---|---|---|
| n-butyl acetate | Acute - LC50 | Fish | 18 mg/l [96 hours] |
| 2-methoxy-1-methylethyl acetate | Acute - LC50 - Fresh water | Fish - Trout - *Oncorhynchus mykiss* | 134 mg/l [96 hours] |
| ethyl 3-ethoxypropionate | Acute - LC50 | Fish | 60.9 mg/l [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 | LC50 | Fish | 0.9 mg/l [96 hours] |
| | EC50 | Algae | 1.68 mg/l [72 hours] |

**Conclusion/Summary** : Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

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

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| n-butyl acetate | - | - | Readily |
| 2-methoxy-1-methylethyl acetate | - | - | Readily |
| ethyl 3-ethoxypropionate | - | - | Readily |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | - | - | Readily |

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| n-butyl acetate | 2.3 | - | Low |
| 2-methoxy-1-methylethyl acetate | 1.2 | - | Low |
| ethyl 3-ethoxypropionate | 1.47 | - | Low |
| Hydrocarbons, C10-C13, aromatics, >1% naphthalene | >4 | 99 to 5780 | High |
| pentane-2,4-dione | 0.68 | - | Low |
| 2-hydroxyethyl methacrylate | 0.42 | - | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient**

## SECTION 12: Ecological information

| Product/ingredient name | logKoc | Koc |
|---|---|---|
| n-butyl acetate | 1.5 | 33.2139 |
| 2-methoxy-1-methylethyl acetate | 0.36 | 2.31363 |
| ethyl 3-ethoxypropionate | 1.4 | 27.5573 |
| pentane-2,4-dione | 1.1 | 12.6222 |
| 4-isocyanatosulphonyltoluene | 1.5 | 31.6836 |
| 2-hydroxyethyl methacrylate | 1.3 | 20.9282 |

### 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 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 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. Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Do not dispose paint or rinse painting tools in sinks or drains. 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** :

**European waste catalogue (EWC)**

| Waste code | Waste designation |
|---|---|
| 08 01 99 | wastes not otherwise specified |

**Packaging**

**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 | European waste catalogue (EWC) | |
|---|---|---|
| Container | 15 01 06 | mixed packaging |

## SECTION 13: Disposal considerations

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number or ID 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** | III | III | III | III |
| **14.5 Environmental hazards** | No. | Yes. | No. | No. |
| **Marine pollutant substances** | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

**Additional information**

**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.

**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**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

## SECTION 15: Regulatory information

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

| Product/ingredient name | Entry Number ( REACH ) |
|---|---|
| AMERSHIELD BLACK RESIN | 3 |

**Labelling** : Not applicable.

### Synthetic polymer microparticles - Entry 78

**Generic identity of polymer(s)** : HS 3909 Amino-resins, phenolic resins and polyurethanes, HS 3912 Cellulose and its chemical derivatives, not elsewhere specified or included.

**Total percentage of synthetic polymer microparticles** : 0 - 1%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

### Other EU regulations

**Explosive precursors** : Not applicable.

### Ozone depleting substances (EU 2024/590)

Not listed.

### Persistent Organic Pollutants

| Annex | Ingredient name | Status |
|---|---|---|
| Annex III | polycyclic aromatic hydrocarbons | Listed |

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

| Category |
|---|
| P5c |

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

### Full text of abbreviated H statements

## SECTION 16: Other information

| | |
|---|---|
| H226 | 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. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| 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. |
| EUH014 | Reacts violently with water. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| 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 |
| Resp. Sens. 1 | RESPIRATORY SENSITISATION - Category 1 |
| 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 |

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**Disclaimer**

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