

# SAFETY DATA SHEET

Date of issue/Date of revision

: 31 July 2020

Version

: 9.01



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

### 1.1 Product identifier

**Product name** : AMERCOAT 450H BR-1 RED OXIDE RESIN

**Product code** : 00352385

**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** : PMC.Safety@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

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.

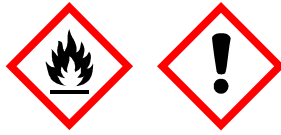
See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 2: Hazards identification

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Flammable liquid and vapour.  
 May cause an allergic skin reaction.  
 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** : Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazardous ingredients** : P280, P210, P273, P261, P362 + P364, P302 + P352  
 Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
 n-butyl methacrylate  
 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** : 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

**3.2 Mixtures** : Mixture

|   |  |
|---|--|
| <b>Code</b> : 00352385                    | <b>Date of issue/Date of revision</b> : 31 July 2020 |
| <b>AMERCOAT 450H BR-1 RED OXIDE RESIN</b> |  |

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

| <b>Product/ingredient name</b>  | <b>Identifiers</b>  | <b>% by weight</b> | <b>Classification<br/>Regulation (EC) No.<br/>1272/2008 [CLP]</b>  | <b>Type</b> |
|---|---|--------------------|--|-------------|
| n-butyl acetate   | REACH #: 01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1  | ≥10 - ≤17          | 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   | [2]         |
| Hydrocarbons, C9, aromatics   | REACH #: 01-2119455851-35<br>EC: 918-668-5<br>CAS: 64742-95-6                       | ≥0.30 - ≤2.3       | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066   | [1]         |
| 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>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)  | [1]         |
| n-butyl methacrylate  | REACH #: 01-2119486394-28<br>EC: 202-615-1<br>CAS: 97-88-1<br>Index: 607-033-00-5   | <1.0               | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335   | [1]         |
| 2-hydroxyethyl methacrylate   | 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]         |
| 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<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1] [2]     |

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
  - [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
  - [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
  - [5] Substance of equivalent concern
  - [6] Additional disclosure due to company policy

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

**SUB codes represent substances without registered CAS Numbers.**

|   |  |
|---|--|
| <b>Code</b> : 00352385                    | <b>Date of issue/Date of revision</b> : 31 July 2020 |
| <b>AMERCOAT 450H BR-1 RED OXIDE RESIN</b> |  |

## 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. 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** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- 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<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 5: Firefighting measures

**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 or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

|                        |  |
|------------------------|--|
| <b>Code</b> : 00352385 | <b>Date of issue/Date of revision</b> : 31 July 2020 |
|------------------------|--|

**AMERCOAT 450H BR-1 RED OXIDE RESIN**

## SECTION 6: Accidental release measures

- 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). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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

- : 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. 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.
- Precautions should be taken to minimise exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurisation.

### 7.3 Specific end use(s)

|   |  |
|---|--|
| <b>Code</b> : 00352385                    | <b>Date of issue/Date of revision</b> : 31 July 2020 |
| <b>AMERCOAT 450H BR-1 RED OXIDE RESIN</b> |  |

## SECTION 7: Handling and storage

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  |
|---------------------------------|--|
| n-butyl acetate                 | <b>EH40/2005 WELs (United Kingdom (UK), 8/2018).</b><br>STEL: 966 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 724 mg/m <sup>3</sup> 8 hours.<br>TWA: 150 ppm 8 hours.                       |
| 2-methoxy-1-methylethyl acetate | <b>EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin.</b><br>STEL: 548 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 274 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours. |
| 4-isocyanatosulphonyltoluene    | <b>EH40/2005 WELs (United Kingdom (UK), 8/2018). Inhalation sensitiser.</b><br>STEL: 0.07 mg/m <sup>3</sup> , (as NCO) 15 minutes.<br>TWA: 0.02 mg/m <sup>3</sup> , (as NCO) 8 hours.                              |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical 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

| Product/ingredient name         | Type | Exposure              | Value                 | Population         | Effects  |
|---------------------------------|------|-----------------------|-----------------------|--------------------|----------|
| n-butyl acetate                 | DNEL | Long term Inhalation  | 300 mg/m <sup>3</sup> | Workers            | Systemic |
|                                 | DNEL | Long term Inhalation  | 300 mg/m <sup>3</sup> | Workers            | Local    |
|                                 | DNEL | Short term Inhalation | 600 mg/m <sup>3</sup> | Workers            | Local    |
|                                 | DNEL | Short term Inhalation | 600 mg/m <sup>3</sup> | Workers            | Systemic |
| 2-methoxy-1-methylethyl acetate | DNEL | Long term Dermal      | 11 mg/m <sup>3</sup>  | Workers            | Systemic |
|                                 | DNEL | Long term Oral        | 1.67 mg/kg bw/day     | General population | Systemic |
|                                 | DNEL | Long term Inhalation  | 33 mg/m <sup>3</sup>  | General population | Local    |
|                                 | DNEL | Long term Inhalation  | 33 mg/m <sup>3</sup>  | General population | Systemic |
|                                 | DNEL | Long term Dermal      | 54.8 mg/kg bw/day     | General population | Systemic |
|                                 | DNEL | Long term Dermal      | 153.5 mg/kg bw/day    | Workers            | Systemic |
|                                 | DNEL | Long term Inhalation  | 275 mg/m <sup>3</sup> | Workers            | Systemic |

|   |  |
|---|--|
| <b>Code</b> : 00352385                    | <b>Date of issue/Date of revision</b> : 31 July 2020 |
| <b>AMERCOAT 450H BR-1 RED OXIDE RESIN</b> |  |

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

|                              |      |                       |                         |                    |          |
|------------------------------|------|-----------------------|-------------------------|--------------------|----------|
| Hydrocarbons, C9, aromatics  | DNEL | Short term Inhalation | 550 mg/m <sup>3</sup>   | Workers            | Local    |
|                              | DNEL | Long term Inhalation  | 150 mg/m <sup>3</sup>   | Workers            | Systemic |
|                              | DNEL | Long term Dermal      | 25 mg/kg bw/day         | Workers            | Systemic |
|                              | DNEL | Long term Inhalation  | 32 mg/m <sup>3</sup>    | General population | Systemic |
| n-butyl methacrylate         | DNEL | Long term Dermal      | 11 mg/kg bw/day         | General population | Systemic |
|                              | DNEL | Long term Oral        | 11 mg/kg bw/day         | General population | Systemic |
|                              | DNEL | Long term Dermal      | 3 mg/kg bw/day          | General population | Systemic |
|                              | DNEL | Long term Dermal      | 5 mg/kg bw/day          | Workers            | Systemic |
| 2-hydroxyethyl methacrylate  | DNEL | Long term Inhalation  | 66.5 mg/m <sup>3</sup>  | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 366.4 mg/m <sup>3</sup> | General population | Local    |
|                              | DNEL | Long term Inhalation  | 409 mg/m <sup>3</sup>   | Workers            | Local    |
|                              | DNEL | Long term Inhalation  | 415.9 mg/m <sup>3</sup> | Workers            | Systemic |
| 4-isocyanatosulphonyltoluene | DNEL | Short term Dermal     | 1 %                     | General population | Local    |
|                              | DNEL | Long term Dermal      | 1 %                     | General population | Local    |
|                              | DNEL | Short term Dermal     | 1 %                     | Workers            | Local    |
|                              | DNEL | Long term Dermal      | 1 %                     | Workers            | Local    |
| 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 <sup>3</sup>   | General population | Systemic |
| 4-isocyanatosulphonyltoluene | DNEL | Long term Inhalation  | 4.9 mg/m <sup>3</sup>   | Workers            | Systemic |
|                              | DNEL | Long term Oral        | 0.46 mg/kg bw/day       | General population | Systemic |
|                              | DNEL | Long term Dermal      | 0.46 mg/kg bw/day       | General population | Systemic |
|                              | DNEL | Long term Inhalation  | 0.8 mg/m <sup>3</sup>   | General population | Systemic |
| 4-isocyanatosulphonyltoluene | DNEL | Long term Dermal      | 0.92 mg/kg bw/day       | Workers            | Systemic |
|                              | DNEL | Long term Inhalation  | 3.24 mg/m <sup>3</sup>  | Workers            | Systemic |

**PNECs**

| Product/ingredient name         | Type                   | 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    | -             |
| 2-methoxy-1-methylethyl acetate | -                      | Soil                   | 0.0903 mg/kg | -             |
|                                 | -                      | 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               | -            |               |



|   |  |  |  |
|---|--|--|--|
| <b>Code</b> : 00352385                                  | <b>Date of issue/Date of revision</b> : 31 July 2020   |  |  |
| <b>AMERCOAT 450H BR-1 RED OXIDE RESIN</b>               |  |  |  |
| <b>SECTION 8: Exposure controls/personal protection</b> |  |  |  |
| 4-isocyanatosulphonyltoluene                            | - Fresh water<br>- Marine water<br>- Sewage Treatment Plant<br>- Fresh water sediment<br>- Marine water sediment<br>- Soil | 0.03 mg/l<br>0.003 mg/l<br>0.4 mg/l<br>0.172 mg/kg dwt<br>0.017 mg/kg dwt<br>0.017 mg/kg dwt | Assessment Factors<br>Assessment Factors<br>Assessment Factors<br>Equilibrium Partitioning<br>Equilibrium Partitioning<br>Equilibrium Partitioning |

## 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 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.

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 8: Exposure controls/personal protection

- Respiratory protection** : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Red.
- Odour** : Characteristic.
- Odour threshold** : Not available.
- pH** : insoluble in water.
- Melting point/freezing point** : May start to solidify at the following temperature: -66°C (-86.8°F) This is based on data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -89.69°C (-129.4°F)
- Initial boiling point and boiling range** : >37.78°C
- Flash point** : Closed cup: 36.11°C
- Evaporation rate** : 0.86 (butyl acetate = 1)
- Flammability (solid, gas)** : liquid
- Upper/lower flammability or explosive limits** : Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)
- Vapour pressure** : 1.9 kPa (14.5 mm Hg) (at 20°C)
- Vapour density** : Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.17 (Air = 1)
- Relative density** : 1.27
- Solubility(ies)** : Insoluble in the following materials: cold water.
- Water Solubility at room temperature** : 1.5 g/l
- Partition coefficient: n-octanol/ water** : Not applicable.
- Auto-ignition temperature** : Lowest known value: 333°C (631.4°F) (2-methoxy-1-methylethyl acetate).
- Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).
- Viscosity** : Kinematic (40°C): >0.21 cm<sup>2</sup>/s
- 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.

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 9: Physical and chemical properties

### 9.2 Other information

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 toxicological effects

#### Acute toxicity

| Product/ingredient name   | Result                 | Species            | Dose                    | Exposure |
|---|------------------------|--------------------|-------------------------|----------|
| n-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   | LD50 Dermal            | Rabbit             | >5 g/kg                 | -        |
|   | LD50 Oral              | Rat                | 8532 mg/kg              | -        |
| Hydrocarbons, C9, aromatics   | LD50 Dermal            | Rabbit             | >3160 mg/kg             | -        |
|   | LD50 Oral              | Rat - Female       | 3492 mg/kg              | -        |
|   |                        | Rat                | >3170 mg/kg             | -        |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | LD50 Dermal            | Rat                | >3170 mg/kg             | -        |
|   | LD50 Oral              | Rat - Male, Female | 3230 mg/kg              | -        |
| n-butyl methacrylate  | LC50 Inhalation Gas.   | Rat                | 4910 ppm                | 4 hours  |
|   | LC50 Inhalation Vapour | Rat                | 29000 mg/m <sup>3</sup> | 4 hours  |
|   | LD50 Dermal            | Rabbit             | 10.2 g/kg               | -        |
|   | LD50 Oral              | Rat                | 16 g/kg                 | -        |
| 2-hydroxyethyl methacrylate   | LD50 Dermal            | Rabbit             | >5 g/kg                 | -        |
|   | LD50 Oral              | Rat                | 5050 mg/kg              | -        |
| 4-isocyanatosulphonyltoluene  | LD50 Oral              | Rat                | 2234 mg/kg              | -        |
|   |                        | Rat                | 2234 mg/kg              | -        |

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Acute toxicity estimates

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 11: Toxicological information

| Route          | ATE value |
|----------------|-----------|
| Not available. |           |

### Irritation/Corrosion

#### Conclusion/Summary

- 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

- 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** : 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             |
| Hydrocarbons, C9, aromatics  | Category 3 | -                 | Respiratory tract irritation |
| n-butyl methacrylate         | Category 3 | -                 | Narcotic effects             |
| 4-isocyanatosulphonyltoluene | Category 3 | -                 | Respiratory tract irritation |
|                              | Category 3 | -                 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

| Product/ingredient name     | Result                         |
|-----------------------------|--------------------------------|
| Hydrocarbons, C9, aromatics | ASPIRATION HAZARD - Category 1 |

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

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**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

- Inhalation** : No specific data.  
**Ingestion** : No specific data.

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 11: Toxicological information

**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** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### 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.

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.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name  | Result                          | Species         | Exposure             |
|--|---------------------------------|-----------------|----------------------|
| <input checked="" type="checkbox"/> n-butyl acetate  | Acute LC50 18 mg/l              | Fish            | 96 hours             |
| 2-methoxy-1-methylethyl acetate  | Acute LC50 161 mg/l Fresh water | Fish            | 96 hours             |
| Hydrocarbons, C9, aromatics  | EC50 3.2 mg/l<br>LC50 9.2 mg/l  | Daphnia<br>Fish | 48 hours<br>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<br>LC50 0.9 mg/l | Algae<br>Fish   | 72 hours<br>96 hours |

**Conclusion/Summary** : There are no data available on the mixture itself.

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 12: Ecological information

### 12.2 Persistence and degradability

| Product/ingredient name     | Test               | Result                   | Dose | Inoculum |
|-----------------------------|--------------------|--------------------------|------|----------|
| n-butyl acetate             | TEPA and OECD 301D | 83 % - Readily - 28 days | -    | -        |
| Hydrocarbons, C9, aromatics | -                  | 75 % - Readily - 28 days | -    | -        |

**Conclusion/Summary** : There are no data available on the mixture itself.

| Product/ingredient name     | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------|-------------------|------------|------------------|
| n-butyl acetate             | -                 | -          | Readily          |
| Hydrocarbons, C9, aromatics | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name         | LogP <sub>ow</sub> | BCF | Potential |
|---------------------------------|--------------------|-----|-----------|
| n-butyl acetate                 | 1.78               | -   | low       |
| 2-methoxy-1-methylethyl acetate | 0.56               | -   | low       |
| n-butyl methacrylate            | 2.88               | -   | low       |
| 2-hydroxyethyl methacrylate     | 0.47               | -   | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### European waste catalogue (EWC)

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

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## SECTION 13: Disposal considerations

### 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       |

**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.

## 14. Transport information

|  | ADR/RID         | ADN             | IMDG            | IATA            |
|--|-----------------|-----------------|-----------------|-----------------|
| <b>14.1 UN number</b>                  | UN1263          | UN1263          | UN1263          | UN1263          |
| <b>14.2 UN proper shipping name</b>    | PAINT           | PAINT           | PAINT           | PAINT           |
| <b>14.3 Transport hazard class(es)</b> | 3               | 3               | 3               | 3               |
| <b>14.4 Packing group</b>              | III             | III             | III             | III             |
| <b>14.5 Environmental hazards</b>      | No.             | Yes.            | No.             | No.             |
| <b>Marine pollutant substances</b>     | 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 Transport in bulk according to IMO instruments** : Not applicable.

Code : 00352385 Date of issue/Date of revision : 31 July 2020  
 AMERCOAT 450H BR-1 RED OXIDE RESIN

## 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.

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

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria

|                 |
|-----------------|
| <b>Category</b> |
| 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

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

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

### **Full text of abbreviated H statements**



|   |  |
|---|--|
| <b>Code</b> : 00352385                    | <b>Date of issue/Date of revision</b> : 31 July 2020 |
| <b>AMERCOAT 450H BR-1 RED OXIDE RESIN</b> |  |

**SECTION 16: Other information**

|        |  |
|--------|--|
| H226   | Flammable liquid and vapour.   |
| H304   | May be fatal if swallowed and enters airways.                              |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                       |
| H319   | Causes serious eye irritation.   |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | May cause respiratory irritation.  |
| H336   | May cause drowsiness or dizziness.   |
| 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 \[CLP/GHS\]](#)

|                   |   |
|-------------------|---|
| 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                                |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                |
| 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 |

**History**

|  |                |
|--|----------------|
| <b>Date of issue/ Date of revision</b> | : 31 July 2020 |
| <b>Date of previous issue</b>          | : 18 May 2020  |
| <b>Prepared by</b>                     | : EHS          |
| <b>Version</b>                         | : 9.01         |

**Disclaimer**

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*