

# SAFETY DATA SHEET

Date of issue/Date of revision

: 24 August 2025

Version : 6



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

### 1.1 Product identifier

Product name : AMERCOAT 235 BLACK RESIN

Product code : 00334080

#### 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 Irrit. 2, H315

Eye Dam. 1, H318

Skin Sens. 1, H317

Carc. 1B, H350

STOT SE 3, H335

Aquatic Chronic 2, H411

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.

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## SECTION 2: Hazards identification

### 2.2 Label elements

#### Hazard pictograms :



#### Signal word :

Danger

#### Hazard statements :

- Flammable liquid and vapour.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- May cause respiratory irritation.
- May cause cancer.
- Toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention :

- Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

##### Response :

- Collect spillage.

##### 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, P391, P403 + P233, P501

#### Hazardous ingredients

- bis-[4-(2,3-epoxipropoxy)phenyl]propane; Hydrocarbons, C9, aromatics > 0.1% cumene; butan-1-ol; Polyisocyanate, Alkyl Phenol Blocked and N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)

#### Supplemental label elements

- Contains epoxy constituents. May produce an allergic reaction.

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

- Restricted to professional users.

#### 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

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**SECTION 2: Hazards identification**

**Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.**

**Contains 4-nonylphenol, branched. May cause endocrine disruption.**

**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
bis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥5.0 - ≤11	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10%	[1] [2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥1.0 - ≤6.5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1] [2]
Polyisocyanate, Alkyl Phenol Blocked	CAS: SUB104447	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
heptan-2-one	REACH #: 01-2119902391-49 EC: 203-767-1 CAS: 110-43-0 Index: 606-024-00-3	≤2.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 STOT SE 3, H336	ATE [Oral] = 1600 mg/kg ATE [Inhalation (vapours)] = 16.7 mg/l	[1] [2]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1] [2]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≤0.30	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/kg M [Acute] = 10 M [Chronic] = 10	[1] [3]

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## SECTION 3: Composition/information on ingredients

			<b>See Section 16 for the full text of the H statements declared above.</b>		
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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

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern - Endocrine disrupting properties

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

<b>Eye contact</b>	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
<b>Inhalation</b>	: 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.
<b>Skin contact</b>	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
<b>Ingestion</b>	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
<b>Protection of first-aiders</b>	: 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

<b>Eye contact</b>	: Causes serious eye damage.
<b>Inhalation</b>	: May cause respiratory irritation.
<b>Skin contact</b>	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
<b>Ingestion</b>	: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain watering redness
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing

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## SECTION 4: First aid measures

<b>Skin contact</b>	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains

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

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: Do not use water jet.

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

<b>Hazards from the substance or mixture</b>	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous combustion products</b>	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides Cyanate and isocyanate. hydrogen cyanide

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: 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.
<b>Special protective equipment for fire-fighters</b>	: 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

<b>For non-emergency personnel</b>	: 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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## SECTION 6: Accidental release measures

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 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.

**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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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## SECTION 7: Handling and storage

### 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.

### 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
Hydrocarbons, C9, aromatics > 0.1% cumene	<b>EU OEL (Europe)</b> TWA: 19 ppm. TWA: 100 mg/m <sup>3</sup> .
butan-1-ol	<b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 20 ppm.
heptan-2-one	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 238 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 475 mg/m <sup>3</sup> .
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	<b>ACGIH TLV (United States)</b> TWA: 10 mg/m <sup>3</sup> . Form: Total dust. TWA: 3 mg/m <sup>3</sup> . Form: Respirable.

**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

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## SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure		Value
bis-[4-(2,3-epoxipropoxi)phenyl]propane	DNEL - Workers - Long term - Inhalation	Systemic	12.25 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	Systemic	12.25 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	Systemic	8.33 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	Systemic	8.33 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Dermal	Systemic	3.571 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Dermal	Systemic	3.571 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Oral	Systemic	0.75 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Oral	Systemic	0.75 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Systemic	89.3 µg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic	0.5 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	0.75 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	0.87 mg/m <sup>3</sup>
Hydrocarbons, C9, aromatics > 0.1% cumene	DNEL - Workers - Long term - Inhalation	Systemic	4.93 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	Systemic	150 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	Systemic	25 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	32 mg/m <sup>3</sup>
	DNEL - General population - Long term - Dermal	Systemic	11 mg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic	11 mg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic	1.5625 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Systemic	3.125 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	55.357 mg/m <sup>3</sup>
butan-1-ol	DNEL - General population - Long term - Inhalation	Local	155 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	Local	310 mg/m <sup>3</sup>
	DNEL - General population - Long term - Oral	Systemic	23.32 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Systemic	23.32 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	54.27 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	84.31 mg/m <sup>3</sup>
heptan-2-one	DNEL - Workers - Long term - Inhalation	Systemic	394.25 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	Systemic	1516 mg/m <sup>3</sup>
	DNEL - General population - Short term - Oral	Systemic	0.4 mg/kg bw/day
	DNEL - General population - Short term - Inhalation	Systemic	0.8 mg/m <sup>3</sup>
	DNEL - General population - Short term - Dermal	Systemic	7.6 mg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic	0.08 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	0.4 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	Systemic	0.5 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	Systemic	1 mg/m <sup>3</sup>
	DNEL - General population - Long term - Dermal	Systemic	3.8 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	7.5 mg/kg bw/day

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## SECTION 8: Exposure controls/personal protection

DNEL - Workers - Short term - Dermal	Systemic	15 mg/kg bw/day
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### PNECs

<b>Product/ingredient name</b>	<b>Compartment Detail - Method</b>	<b>Value</b>
Bis-[4-(2,3-epoxipropoxy)phenyl]propane	Fresh water - Assessment Factors	0.006 mg/l
	Marine water - Assessment Factors	0.001 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.996 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.1 mg/kg dwt
	Soil - Equilibrium Partitioning	0.196 mg/kg dwt
	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Secondary Poisoning - Assessment Factors	11 mg/kg
butan-1-ol	Fresh water	0.082 mg/l
	Marine water	0.0082 mg/l
	Fresh water sediment	0.178 mg/kg
	Marine water sediment	0.0178 mg/kg
	Soil	0.015 mg/kg
heptan-2-one	Sewage Treatment Plant	2476 mg/l
	Fresh water - Assessment Factors	0.0982 mg/l
	Marine water - Assessment Factors	0.00982 mg/l
	Fresh water sediment - Equilibrium Partitioning	1.89 mg/kg
	Marine water sediment - Equilibrium Partitioning	0.189 mg/kg
	Sewage Treatment Plant - Assessment Factors	12.5 mg/l
	Soil - Equilibrium Partitioning	0.321 mg/kg

### 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

- Chemical splash goggles and face shield. Use eye protection according to EN 166.

##### Skin 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.

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## SECTION 8: Exposure controls/personal protection

<b>Gloves</b>	: butyl rubber
<b>Body protection</b>	: 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.
<b>Other skin protection</b>	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.
<b>Respiratory protection</b>	: 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
<b>Environmental exposure controls</b>	: 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: 36.67°C

**Auto-ignition temperature**

:

Ingredient name	°C	°F	Method
butan-1-ol	355	671	EU A.15

**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<sup>2</sup>/s

**Solubility**

:

Media	Result
cold water	Not soluble

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## SECTION 9: Physical and chemical properties

**Solubility in water** : 0.5 g/l  
**Partition coefficient n-octanol/ water (log Pow)** : Not applicable.  
**Vapour pressure** : 0.79 kPa (5.9 mm Hg)  
**Relative density** : 1.41

### 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 explosive 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** : 0.36 (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** : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide 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.

Causes serious eye damage.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause cancer.  
May cause respiratory irritation.

### Acute toxicity

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## SECTION 11: Toxicological information

Product/ingredient name	Result	Dose / Exposure
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Rabbit - Dermal - LD50	23000 mg/kg
Hydrocarbons, C9, aromatics > 0.1% cumene	Rat - Oral - LD50 Rat - Female - Oral - LD50	15000 mg/kg 3492 mg/kg
butan-1-ol	Rabbit - Dermal - LD50 Rabbit - Dermal - LD50 <u>Toxic effects</u> : Eye - Corneal damage Cardiac - Pulse rate Lung, Thorax, or Respiration - Dyspnea Rat - Oral - LD50 <u>Toxic effects</u> : Liver - Fatty liver degeneration Kidney, Ureter, and Bladder - Other changes Blood - Other changes Rat - Inhalation - LC50 Vapour	>3160 mg/kg 3400 mg/kg 790 mg/kg
heptan-2-one	Rat - Oral - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Vapour Rat - Oral - LD50	24000 mg/m <sup>3</sup> [4 hours] 1.6 g/kg 10.206 g/kg 16.7 mg/l [4 hours] >2000 mg/kg
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Rat - Dermal - LD50	>2000 mg/kg
4-nonylphenol, branched	Rat - Inhalation - LC50 Dusts and mists Rabbit - Dermal - LD50 Rat - Oral - LD50 <u>Toxic effects</u> : Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight gain	>5.11 mg/l [4 hours] 2.14 g/kg 1300 mg/kg

### Acute toxicity estimates

Route	ATE value
Oral Inhalation (vapours)	10811.8 mg/kg 846.68 mg/l

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

### Irritation/Corrosion

Product/ingredient name	Result
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Rabbit - Eyes - Redness of the conjunctivae Duration of treatment/exposure: 24 hours Irritation score: 0.4
-	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Fully reversible in 7 days or less
-	Rabbit - Skin - Erythema/Eschar Duration of treatment/exposure: 4 hours Irritation score: 0.8
-	Rabbit - Skin - Oedema Duration of treatment/exposure: 4 hours Irritation score: 0.5
-	Rabbit - Skin - Mild irritant Duration of treatment/exposure: 4 hours

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butan-1-ol	Rabbit - Eyes - Cornea opacity Irritation score: 4
4-nonylphenol, branched	Rabbit - Skin - Erythema/Escar Irritation score: 4

### Conclusion/Summary

**Skin** : Causes skin irritation.  
**Eyes** : Causes serious eye damage.  
**Respiratory** : Based on available data, the classification criteria are not met.

### Respiratory or skin sensitization

Product/ingredient name	Test	Result
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Mouse - skin	Sensitising

### 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

May cause cancer.

### 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
Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3	-	Respiratory tract irritation
- butan-1-ol	Category 3	-	Narcotic effects
- Polyisocyanate, Alkyl Phenol Blocked heptan-2-one	Category 3	-	Respiratory tract irritation
	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
	Category 3	-	Narcotic effects

### Conclusion/Summary :

May cause respiratory irritation.

### Specific target organ toxicity (repeated exposure)

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

### Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C9, aromatics > 0.1% cumene	ASPIRATION HAZARD - Category 1

### Conclusion/Summary :

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

### Information on likely routes of exposure

### Potential acute health effects

**Inhalation** : May cause respiratory irritation.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

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## SECTION 11: Toxicological information

**Eye contact** : Causes serious eye damage.

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

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

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

**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. 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.

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## 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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
Hydrocarbons, C9, aromatics > 0.1% cumene	Acute - LC50 - Fresh water EC50	Daphnia - <i>daphnia magna</i> Daphnia	1.8 mg/l [48 hours] 3.2 mg/l [48 hours]
butan-1-ol	LC50	Fish	9.2 mg/l [96 hours]
heptan-2-one	Acute - LC50	Fish	1376 mg/l [96 hours]
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Acute - EC50	Fish	131 mg/l [96 hours]
	Acute - EC50	Daphnia - <i>Daphnia magna</i>	94 mg/l [48 hours]
4-nonylphenol, branched	Acute - LC50	Algae - <i>Pseudokirchneriella subcapitata</i>	29 to 43 mg/l [72 hours]
	Acute - EC50	Fish	0.221 mg/l [96 hours]
	Acute - EC50	Crustaceans - Water flea - <i>Moina macrocopa</i>	0.044 mg/l [48 hours]
		Algae - Green algae - <i>Raphidocelis subcapitata</i>	0.04 mg/l [72 hours]

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

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
Hydrocarbons, C9, aromatics > 0.1% cumene	-	75% [28 days] - Readily	
heptan-2-one	OECD 310	69% [28 days] - Readily	
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	-	63% [28 days]	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi)phenyl]propane	-	-	Not readily
Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
heptan-2-one	-	-	Readily
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	-	-	Readily

### 12.3 Bioaccumulative potential

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## SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
butan-1-ol	1	-	Low
heptan-2-one	2.26	-	Low
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	>6	-	High
4-nonylphenol, branched	5.4	251.19 [ASTM E 1022-84]	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
bis-[4-(2,3-epoxipropoxy)phenyl]propane	4	10465.7
butan-1-ol	0.51	3.22078
heptan-2-one	1.6	39.9018
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	4.3	20542.3

### 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

May cause endocrine disruption.

### 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. 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

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## SECTION 13: Disposal considerations

**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.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID 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>	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
<b>Marine pollutant substances</b>	Not applicable.	Not applicable.	(bis-[4-(2,3-epoxipropoxy) phenyl]propane)	Not applicable.

### Additional information

**ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of  $\leq$  5 L or  $\leq$  5 kg.

**Tunnel code** : (D/E)

**ADN** : The environmentally hazardous substance mark is not required when transported in sizes of  $\leq$  5 L or  $\leq$  5 kg.

**IMDG** : The marine pollutant mark is not required when transported in sizes of  $\leq$  5 L or  $\leq$  5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**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.

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## 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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Endocrine disrupting properties for environment	4-nonylphenol, branched	Candidate	ED/169/2012	12/19/2012

###### 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 )
AMERCOAT 235 BLACK RESIN	3
Hydrocarbons, C9, aromatics > 0.1% cumene	28
4-nonylphenol, branched	28
	46

**Labelling** : Restricted to professional users.

**Explosive precursors** : Not applicable.

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

Not listed.

###### Persistent Organic Pollutants

Not listed.

###### Seveso Directive

This product is controlled under the Seveso Directive.

###### Danger criteria

Category
P5c
E2

**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

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## SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

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. 1B	CARCINOGENICITY - Category 1B
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### History

**Date of issue/ Date of revision** : 24 August 2025

**Date of previous issue** : 15 January 2025

**Prepared by** : EHS

**Version** : 6

### Disclaimer

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## SECTION 16: Other information

*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.*