

SAFETY DATA SHEET



Date of issue/Date of revision

: 23 September 2026

Version

: 1.04

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

1.1 Product identifier

Product name : AMERCOAT 253 CHEMICAL LINING BLUE
Product code : 00353771
Product type : Liquid.
Other means of identification : Not available.

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

Product use : Professional applications, Used by spraying.
Use of the substance/mixture : Coating.
Uses advised against : Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person 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 UK CLP/GHS

 Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word : Warning

Code : 00353771 **Date of issue/Date of revision** : 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE

SECTION 3: Composition/information on ingredients

bis-[4-(2,3-epoxipropoxy)phenyl] propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥1.0 - ≤5.0	Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	<1.0	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5 Index: 607-770-00-2	≤0.10	Skin Sens. 1A, H317 Muta. 2, H341 Repr. 2, H361d Aquatic Chronic 2, H411	[1]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	<0.0010	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H statements declared above.	[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

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

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Code : 00353771	Date of issue/Date of revision : 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE	

SECTION 4: First aid measures

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

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
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, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Code : 00353771	Date of issue/Date of revision : 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE	

SECTION 5: Firefighting measures

- 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 British standard BS EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain

Code	: 00353771	Date of issue/Date of revision	: 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE			

SECTION 7: Handling and storage

Advice on general occupational hygiene	: product residue and can be hazardous. Do not reuse container. : 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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7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Occupational exposure limits

Product/ingredient name	Exposure limit values
heptan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 475 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 237 mg/m³. TWA 8 hours: 50 ppm.
Hydrocarbons, C9, aromatics > 0.1% cumene	EU OEL (Europe) TWA: 19 ppm. TWA: 100 mg/m³.
maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020) Inhalation sensitiser. STEL 15 minutes: 3 mg/m³. TWA 8 hours: 1 mg/m³.

No exposure indices known.

Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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.
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DNELs/DMELs

Code : 00353771

Date of issue/Date of revision

: 23 September 2026

AMERCOAT 253 CHEMICAL LINING BLUE

SECTION 8: Exposure controls/personal protection

heptan-2-one	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 ³
	DNEL - Workers - Long term - Inhalation	Systemic	394.25 mg/m ³
	DNEL - Workers - Short term - Inhalation	Systemic	1516 mg/m ³
	DMEL - Workers - Short term - Dermal	Local	8.3 µg/cm ²
	DNEL - General population - Long term - Oral	Systemic	6.25 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	8.7 mg/m ³
	DNEL - Workers - Long term - Inhalation	Systemic	29.39 mg/m ³
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	DNEL - General population - Long term - Dermal	Systemic	62.5 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	104.15 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Systemic	150 mg/m ³
	DNEL - Workers - Long term - Dermal	Systemic	25 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	32 mg/m ³
	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 - Workers - Long term - Inhalation	Systemic	12.25 mg/m ³
	DNEL - Workers - Short term - Inhalation	Systemic	12.25 mg/m ³
	DNEL - Workers - Long term - Dermal	Systemic	8.33 mg/kg bw/day
Hydrocarbons, C9, aromatics > 0.1% cumene	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 ³
	DNEL - Workers - Long term - Inhalation	Systemic	4.93 mg/m ³
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL - Workers - Long term - Inhalation	Systemic	12.25 mg/m ³
	DNEL - Workers - Long term - Inhalation	Systemic	12.25 mg/m ³
	DNEL - Workers - Short term - Inhalation	Systemic	12.25 mg/m ³
	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	2.5 mg/kg bw/day
epoxy resin (MW ≤ 700)	DNEL - General population - Long term - Inhalation	Systemic	4 mg/m ³
	DNEL - Workers - Short term - Inhalation	Systemic	12.25 mg/m ³
	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	2.5 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	4 mg/m ³
2,3-epoxypropyl neodecanoate	DNEL - General population - Long term - Inhalation	Systemic	12.25 mg/m ³
	DNEL - Workers - Short term - Inhalation	Systemic	12.25 mg/m ³
	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	2.5 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	4 mg/m ³

Code : 00353771

Date of issue/Date of revision

: 23 September 2026

AMERCOAT 253 CHEMICAL LINING BLUE

SECTION 8: Exposure controls/personal protection

maleic anhydride	Inhalation		
	DNEL - Workers - Long term - Dermal	Systemic	4.2 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Systemic	5.88 mg/m ³
	DNEL - General population - Long term - Oral	Systemic	2.5 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Systemic	0.4 mg/m ³
	DNEL - Workers - Long term - Inhalation	Local	0.4 mg/m ³
	DNEL - General population - Long term - Inhalation	Systemic	0.05 mg/m ³
	DNEL - General population - Long term - Oral	Systemic	0.06 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Local	0.08 mg/m ³
	DNEL - Workers - Long term - Inhalation	Local	0.081 mg/m ³
	DNEL - Workers - Long term - Inhalation	Systemic	0.081 mg/m ³
	DNEL - General population - Short term - Oral	Systemic	0.1 mg/kg bw/day
	DNEL - General population - Short term - Dermal	Systemic	0.1 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Systemic	0.1 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	Systemic	0.2 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	0.2 mg/kg bw/day
	DNEL - Workers - Short term - Inhalation	Local	0.2 mg/m ³
	DNEL - Workers - Short term - Inhalation	Systemic	0.2 mg/m ³

PNECs

Product/ingredient name	Compartment Detail - Method	Value
heptan-2-one	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
	Fresh water - Assessment Factors	0.006 mg/l
bis-[4-(2,3-epoxipropoxy)phenyl] propane	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
	Fresh water - Assessment Factors	0.006 mg/l
epoxy resin (MW ≤ 700)	Marine water - Assessment Factors	0.001 mg/l
	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.996 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.1 mg/kg dwt
	Fresh water - Assessment Factors	0.1 mg/l
	Marine water - Assessment Factors	0.01 mg/l
	Sewage Treatment Plant - Assessment Factors	44.6 mg/l
maleic anhydride	Fresh water sediment - Equilibrium Partitioning	0.334 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.033 mg/kg dwt
	Soil - Equilibrium Partitioning	0.042 mg/kg dwt

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

Code : 00353771	Date of issue/Date of revision : 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE	

SECTION 8: Exposure controls/personal protection

- 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.
- 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.
- Body protection** : butyl rubber
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.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Blue.
- Odour** : Characteristic.
- Odour threshold** : Not available.
- Melting point/freezing point** :
- Initial boiling point and boiling range** : >37.78°C (>100°F)
- Flammability (solid, gas)** : liquid

Code	: 00353771	Date of issue/Date of revision	: 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE			

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits : Not available.

Flash point : Closed cup: 42.22°C (108°F)

Auto-ignition temperature :

Ingredient name	°C	°F	Method
heptan-2-one	393	739.4	

pH : Not applicable.

Not applicable. insoluble in water.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available.

Kinematic (40°C): >21 mm²/s

Solubility(ies) :

Media	Result
cold water	Not soluble

Miscible with water : No.

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

Vapour pressure :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
heptan-2-one	6.88	0.92				

Relative density : 1.44

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.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds Formaldehyde. metal oxide/oxides

Code : 00353771

Date of issue/Date of revision

: 23 September 2026

AMERCOAT 253 CHEMICAL LINING BLUE

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Dose / Exposure
heptan-2-one	Rat - Oral - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Vapour Rat - Oral - LD50	1.6 g/kg 10.206 g/kg 16.7 mg/l [4 hours] >10000 mg/kg
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Hydrocarbons, C9, aromatics > 0.1% cumene	Rat - Female - Oral - LD50	3492 mg/kg
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Rabbit - Dermal - LD50 Rabbit - Dermal - LD50	>3160 mg/kg 23000 mg/kg
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	Rat - Oral - LD50 Rat - Oral - LD50	15000 mg/kg >2000 mg/kg
epoxy resin (MW ≤ 700)	Rat - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists Rat - Oral - LD50 Rabbit - Dermal - LD50	>2000 mg/kg >5.11 mg/l [4 hours] >2 g/kg >2 g/kg
2,3-epoxypropyl neodecanoate	Rat - Oral - LD50 Rat - Dermal - LD50	9.6 g/kg 3800 mg/kg
maleic anhydride	Rabbit - Dermal - LD50 Rat - Oral - LD50	2620 mg/kg 400 mg/kg

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

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
AMERCOAT 253 CHEMICAL LINING BLUE	9981.5	N/A	N/A	104.2	N/A
heptan-2-one	1600	10206	N/A	16.7	N/A
Hydrocarbons, C9, aromatics > 0.1% cumene	3492	N/A	N/A	N/A	N/A
bis-[4-(2,3-epoxipropoxy)phenyl]propane	15000	23000	N/A	N/A	N/A
2,3-epoxypropyl neodecanoate	9600	3800	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

Irritation/Corrosion

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

Code : 00353771	Date of issue/Date of revision : 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE	

SECTION 11: Toxicological information

epoxy resin (MW ≤ 700)	<u>Rabbit - Skin - Mild irritant</u>
-	<u>Rabbit - Eyes - Mild irritant</u>

Conclusion/Summary : Not available.

Skin : There are no data available on the mixture itself.

Eyes : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Test	Result
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Mouse - skin	Sensitising
epoxy resin (MW ≤ 700)	Mouse - skin OECD 429	Sensitising

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.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
heptan-2-one	Category 3	-	Narcotic effects
Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
maleic anhydride	Category 1	inhalation	respiratory system

Aspiration hazard

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

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Code	: 00353771	Date of issue/Date of revision	: 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE			

SECTION 11: Toxicological information

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: 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	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
heptan-2-one	Acute - LC50	Fish	131 mg/l [96 hours]
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Acute - LC50	Fish	2.54 mg/l [96 hours]
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50	Daphnia	3.2 mg/l [48 hours]
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LC50	Fish	9.2 mg/l [96 hours]
	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	Acute - LC50 - Fresh water	Daphnia - <i>daphnia magna</i>	1.8 mg/l [48 hours]
	Acute - EC50	Daphnia - <i>Daphnia magna</i>	94 mg/l [48 hours]
	Acute - EC50	Algae - <i>Pseudokirchneriella subcapitata</i>	29 to 43 mg/l [72 hours]
epoxy resin (MW ≤ 700)	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
	Acute - LC50	Daphnia	1.8 mg/l [48 hours]
2,3-epoxypropyl	Acute - LC50	Fish - <i>Oncorhynchus mykiss</i>	9.6 mg/l [96 hours]

Code	: 00353771	Date of issue/Date of revision	: 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE			

SECTION 12: Ecological information

neodecanoate	Acute - EC50 Acute - EC50	Daphnia - <i>Daphnia magna</i> Algae	4.8 mg/l [48 hours] 3.5 mg/l [96 hours]
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Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
heptan-2-one	OECD 310	69% [28 days] - Readily	
Hydrocarbons, C9, aromatics	-	75% [28 days] - Readily	
> 0.1% cumene	-		
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63% [28 days]	
epoxy resin (MW ≤ 700)	OECD 301F	5% [28 days]	
2,3-epoxypropyl	-	7 to 11% [28 days]	
neodecanoate			

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
heptan-2-one	-	-	Readily
Hydrocarbons, C9, aromatics	-	-	Readily
> 0.1% cumene	-	-	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	-	Readily
epoxy resin (MW ≤ 700)	-	-	Not readily
2,3-epoxypropyl	-	-	Not readily
neodecanoate			

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
heptan-2-one	2.26	-	Low
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	Low
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	>6	-	High
epoxy resin (MW ≤ 700)	3	31	Low
2,3-epoxypropyl neodecanoate	4.4	-	High
maleic anhydride	-2.78	-	Low

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Phenol, polymer with formaldehyde, glycidyl ether (MW ≤ 700)	No	N/A	N/A	No	N/A	N/A	N/A
heptan-2-one	No	N/A	N/A	No	N/A	N/A	N/A
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	No	N/A	N/A	No	N/A	N/A	N/A

Code	: 00353771	Date of issue/Date of revision	: 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE			

SECTION 12: Ecological information

Hydrocarbons, C9, aromatics > 0.1% cumene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
bis-[4-(2,3-epoxipropoxy) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	No	N/A	N/A	No	N/A	N/A	N/A
epoxy resin (MW ≤ 700)	No	N/A	No	No	No	N/A	No
2,3-epoxypropyl neodecanoate	N/A	N/A	N/A	Yes	N/A	N/A	N/A
maleic anhydride	N/A	N/A	N/A	Yes	N/A	N/A	N/A

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

Waste catalogue

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

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	Waste catalogue
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
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3

Code : 00353771 **Date of issue/Date of revision** : 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE

SECTION 14: Transport information

14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Phenol, polymer with formaldehyde, glycidyl ether (MW≤700))	Not applicable.

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code : (D/E)
ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤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 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK (GB)/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.

Explosive precursors : Not applicable.

Ozone depleting substances

Not listed.

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 253 CHEMICAL LINING BLUE	3

Labelling : Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c E2

Code : 00353771

Date of issue/Date of revision

: 23 September 2026

AMERCOAT 253 CHEMICAL LINING BLUE

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

Abbreviations and acronyms

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

Procedure used to derive the classification

Classification	Justification
 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method

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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
EUH071	Corrosive to the respiratory tract.

Full text of classifications

 Acute Tox. 4	ACUTE TOXICITY - Category 4
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
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
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. 1A	SKIN SENSITISATION - Category 1A

Code	: 00353771	Date of issue/Date of revision	: 23 September 2026
AMERCOAT 253 CHEMICAL LINING BLUE			

SECTION 16: Other information	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Prepared by	: EHS
Version	: 1.04

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