SAFETY DATA SHEET



Date of issue 13 February 2025

Version 1.02

Section 1. Identification		
Chemical name	: AMERCOAT 1202 HARDENER	
GHS product identifier	: AMERCOAT 1202 HARDENER	
Code	: 00472049	
Relevant identified uses of the substance or mixture and uses advised against		
Product use	Coating. Professional applications, Used by spraying.	
Supplier's details	: PPG Industries International Inc. Taiwan Branch. No.209, Hong Tzuenn Rd Ping Chen City, Taoyuan County, Taiwan Tel: 886 3 3663922 886 3 3751639 (Automotive OEM Coatings Products). Fax: 886 3 2182667	
Emergency telephone number	: <mark>⊁</mark> 886-3-3663922 +886-911998320	

Section 2. Hazards identification

Classification of the	: ACUTE TOXICITY (oral) - Category 5
substance or mixture	ACUTE TOXICITY (dermal) - Category 4
	SKIN CORROSION/IRRITATION - Category 1A
	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	SKIN SENSITISATION - Category 1
	AQUATIC TOXICITY (CHRONIC) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 20.3%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 61.4%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 27.2%
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Product name AMERCOAT 1202 HARDENER

Section 2. Hazards identification

Hazard statements	:	May be harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	-	Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	1	Store locked up.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	1	None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Hazardous ingredients	% (w/w)	Identifiers	Туре
Zashew, nutshell liq., 2-hydroxyethyl ethers	≥10 - ≤20	232268-65-4	[1]
benzyl alcohol	≥5 - ≤10	100-51-6	[1]
1,3-Cyclohexanedimethanamine	≥5 - ≤9.5	2579-20-6	[1]
4,4'-methylenebis(cyclohexylamine)	≥3 - ≤5	1761-71-3	[1]
Cyclohexanamine, 4,4'-methylenebis-, reaction products with bisphenol A diglycidyl ether homopolymer	≥3 - ≤5	129733-57-9	[1]
2,4,6-tris(dimethylaminomethyl)phenol	≥1 - ≤3	90-72-2	[1]
危险成分	% (w/w)	标识符	类型
腰 果壳油二羟基乙醚	≥10 - ≤20	232268-65-4	[1]
苄醇	≥5 - ≤10	100-51-6	[1]
1,3-环己二甲胺	≥5 - ≤9.5	2579-20-6	[1]
4,4'-亚基双环己胺	≥3 - ≤5	1761-71-3	[1]
4,4'-亚基双环己胺与双酚 A 缩水甘油 酯醚均 聚物的反应产物	≥3 - ≤5	129733-57-9	[1]
2,4,6-三[(二甲氨基)甲基]苯酚	$\geq 1 - \leq 3$	90-72-2	[1]

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 and hence require reporting in this section.

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Section 3. Composition/information on ingredients

<u>Type</u>

Substance classified with a health or environmental hazard

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

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary	y first aid measures
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.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.
Eye contact	 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.
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Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

Section 4. First aid measures

Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides
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.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	: 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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.
Methods and material for con	tainment and cleaning up
Large spill	: Stop leak if without risk. Move containers from spill area. 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.

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Section 6. Accidental release measures

Small spill

: Stop leak if without risk. Move containers from spill area. 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.

Section 7. Handling and storage

Precautions for safe handling	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 breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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 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. 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.

Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits None.	
Appropriate engineering : controls	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measures	
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.
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.
Gloves :	nitrile neoprene

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Section 8. Exposure controls/personal protection

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.
Eye protection	: Chemical splash goggles and face shield.
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.

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	:	Liquid.	
Colour	:	Beige.	
Odour	:	Characteristic.	
Odour threshold	:	Not available.	
рН	:	Not applicable.	
Melting point	1	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	1	Closed cup: 100°C (212°F)	
Flammability (solid, gas)	1	Not available.	
Burning time	1	Not applicable.	
Burning rate	1	Not applicable.	
Decomposition temperature	:	Not available.	
Evaporation rate	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Vapour pressure	:	Not available.	
Vapour density	:	Not available.	
Relative density	:	1.56	
Solubility(ies)		Media R	esult
	Ċ	cold water N	ot soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Viscosity	:	Dynamic (room temperature) Kinematic (room temperature Kinematic (40°C): >21 mm²/s	e): Not available.

Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products Hazardous polymerisation	 Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
penzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
2	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
1,3-Cyclohexanedimethanamine	LD50 Dermal	Rabbit	1700 mg/kg	-
	LD50 Oral	Rat	700 mg/kg	-
4,4'-methylenebis	LD50 Dermal	Rabbit	2.11 g/kg	-
(cyclohexylamine)			0 0	
(),	LD50 Oral	Rat	0.625 g/kg	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl)			0 0	
phenol				
•	LD50 Oral	Rat	1200 mg/kg	-

Irritation/Corrosion

Not available.

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

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Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
4'-methylenebis(cyclohexylamine)	Category 2	oral	-

Aspiration hazard

Name	Result		
benzyl alcohol	ASPIRATION HAZARD - Category 2		

Information on likely routes
of exposure: Not available.Potential acute health effectsInhalation: No known significant effects or critical hazards.Ingestion: May be harmful if swallowed.Skin contact: Causes severe burns. Harmful in contact with skin. May cause an allergic skin
reaction.Eye contact: Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Eyes	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	

Section 11. Toxicological information

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef Not available.	f <u>ects</u>
General	: 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.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eye contact	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/I)
MERCOAT 1202 HARDENER	3444.6	1655.4	N/A	N/A	N/A
Cashew, nutshell liq., 2-hydroxyethyl ethers	N/A	1100	N/A	N/A	N/A
benzyl alcohol	1200	2500	N/A	N/A	N/A
1,3-Cyclohexanedimethanamine	700	1700	N/A	N/A	N/A
4,4'-methylenebis(cyclohexylamine)	625	2110	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A

Other information

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.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
7.3-Cyclohexanedimethanamine 2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Fish - <i>golden orfe</i> Daphnia	96 hours 48 hours
	Acute LC50 >100 mg/l	Fish	96 hours

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Section 12. Ecological information

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
2 ,4,6-tris (dimethylaminomethyl)phenol	OECD Ready Biodegradability - Closed Bottle Test		eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
benzyl alcohol 2,4,6-tris (dimethylaminomethyl)phenol	-		-		Readil Not rea	5

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
▶enzyl alcohol	0.87	-	Low
1,3-Cyclohexanedimethanamine	0.783	-	Low
4,4'-methylenebis	2.03	-	Low
(cyclohexylamine)			
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)phenol			

Mobility in soil	
Soil/water partition	: Not a
coefficient	

Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	8	8	8
Packing group	III	III	
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

TCCSCA List of toxic chemicals

Not applicable.

TCCSCA List of concerned chemicals

Not applicable.

List of chemicals for which : This product contains substances "Specially hazardous to health": xylene, methanol. manufacturing or handling is defined as "work specially hazardous to health"

Regulations Applicable:

- 1. Rules for Occupational Safety and Health Facilities
- 2. Regulations for the Labeling and Hazard Communication of Hazardous Chemicals
- 3. Prevention Rules for Organic Solvent Intoxication/Poisoning.
- 4. Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace
- 5. Traffic Safety Regulation of Road.

Section 16. Other information

References	Not available.		
Organisation that	Name: PPG Industries International Inc., Taiwan Branch		
prepared the SDS	Address / Telephone : No. 209, Hong Tzuenn Rd. Ping Chen City, Taoyuan County, Taiwan +886-3-3663922 +886-911998320		
Person who prepared the SDS	Title: Technical manager	Name: (Signature): Tony Cheng	
Date of issue	13 February 2025		

Date of previous issue	: 2/27/2024
Version	: 1.02
Indicates information that	has changed from previously issued version.
Remarks	: New SDS layout incorporating TW Table 2017
Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

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 PPG, 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.