# SAFETY DATA SHEET

#### **AMERCOAT 450H RAL 9003 WHITE RESIN**



Date of issue 24 August 2025

Version 21

# 1. Product and company identification

Product name : AMERCOAT 450H RAL 9003 WHITE RESIN

Product code : 00333868 Product type : Liquid.

#### 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 : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe

652-0803 Japan; Tel: +81-78-574-2777

**Emergency telephone** 

number

: 078 574 2777

# 2. Hazards identification

GHS Classification : FLAMMABLE LIQUIDS - Category 3

EYE IRRITATION - Category 2B

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 3

**GHS** label elements

Hazard pictograms :





Signal word : Danger

**Hazard statements** : Flammable liquid and vapor.

May cause an allergic skin reaction.

Causes eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure. (respiratory

organs)

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

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# 2. Hazards identification

#### **Prevention**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

#### Response

: F exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

# Storage

: 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

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

# 3. Composition/information on ingredients

Substance/mixture : Mixture

#### CAS number/other identifiers

**CAS number** : Not applicable. **CSCL number** : Not available.

Ingredient name	%	CAS number	CSCL
√itanium dioxide (excluding nanoparticle)	25 - <50	13463-67-7	1-558; 5-5225
Butyl acetate	12.5 - <15	123-86-4	2-731
Propylene glycol monomethyl ether acetate	3 - <5	108-65-6	2-3144
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.2 - < 0.5	41556-26-7	5-5501
Xylene	0.2 - < 0.5	1330-20-7	3-3; 3-60
Silica (silicon dioxide containing crystalline and	0.2 - <0.5	7631-86-9	1-548
amorphous)			
2-hydroxyethyl methacrylate	0.1 - <0.2	868-77-9	2-1044
Triethylenediamine	0.1 - <0.2	280-57-9	5-1141
Zirconium oxide	0.1 - <0.2	1314-23-4	1-563
4-isocyanatosulphonyltoluene	0.1 - <0.2	4083-64-1	3-2222
propylidynetrimethanol	0.1 - < 0.2	77-99-6	2-245
Ethyl Benzene	0.1 - <0.2	100-41-4	3-28; 3-60
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - < 0.2	82919-37-7	5-5593
n-butyl methacrylate	0.1 - <0.2	97-88-1	2-1039

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.

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

SUB codes represent substances without registered CAS Numbers.

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Product name AMERCOAT 450H RAL 9003 WHITE RESIN

# 4. First aid measures

### **Description of necessary 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 recognized skin cleanser. Do NOT use solvents or thinners.

If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

# Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes eye irritation.

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

skin reaction.

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

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

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

reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

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)

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# 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

metal oxide/oxides

Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon oxides

for fire-fighters

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

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 6. Accidental release measures

#### 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized 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".

**Environmental precautions**: Avoid dispersal of spilled 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 materials 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 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 noncombustible, 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 spilled product. Note: see Section 1 for

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# 6. Accidental release measures

#### **Special provisions**

emergency contact information and Section 13 for waste disposal.

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

# 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 or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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 vapor 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.

Conditions for safe storage: 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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

# 8. Exposure controls/personal protection

**Control parameters** 

**Occupational exposure limits** 

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# 8. Exposure controls/personal protection

Ingredient name	Exposure limits
iffanium dioxide	Japan Society for Occupational Health (Japan, 5/2024) [titanium dioxide]  OEL-M 8 hours: 1.5 mg/m³ (as Ti). Form: Respirable particulate matter.  OEL-M 8 hours: 2 mg/m³ (as Ti). Form: Total particulate matter.  Japan Society for Occupational Health (Japan, 5/2024) [titanium dioxide (nanoparticle)]  OEL-M 8 hours: 0.3 mg/m³. Form: nanoparticle.
n-butyl acetate	Japan Society for Occupational Health (Japan, 5/2024)  OEL-M 8 hours: 100 ppm.  OEL-M 8 hours: 475 mg/m³.  Industrial Safety and Health Act (Japan, 11/2024)  TWA 8 hours: 150 ppm.
xylene	Japan Society for Occupational Health (Japan, 5/2024)  OEL-M 8 hours: 50 ppm.  OEL-M 8 hours: 217 mg/m³.  Industrial Safety and Health Act (Japan, 11/2024) [xylene]  TWA 8 hours: 50 ppm.
ethylbenzene	Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.  OEL-M 8 hours: 20 ppm.  OEL-M 8 hours: 87 mg/m³.  Industrial Safety and Health Act (Japan, 11/2024)  TWA 8 hours: 20 ppm.

# procedures

**Recommended monitoring**: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **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.

### 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 protection**

: Safety glasses with side shields.

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# 8. Exposure controls/personal protection

### 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.

Gloves : butyl rubber

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist

before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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 : Use an air-fed respirator unless a site-specific assessment determines that an air-

fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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.

# 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : White.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 36.11°C (97°F)
Evaporation rate : 0.88 (butyl acetate = 1)
Vapor pressure : 2 kPa (14.7 mm Hg)

Relative density : 1.42

Solubility(ies) : Media Result

cold water Not soluble

# 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**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** : In a fire, hazardous decomposition products may be produced.

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### **Product name AMERCOAT 450H RAL 9003 WHITE RESIN**

# 10. Stability and reactivity

**Incompatible materials** 

: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

# 11. Toxicological information

# Information on toxicological effects

# **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
Propylene glycol monomethyl ether acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
*	LD50 Oral	Rat	4.3 g/kg	-
Silica (silicon dioxide containing crystalline and amorphous)	LD50 Dermal	Rabbit	>5000 mg/kg	-
amorphous)	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	
2-nydroxyetnyi methaci yiate	LD50 Oral	Rat	5050 mg/kg	-
Triethylenediamine	LC50 Inhalation Dusts and mists	Rat	>20 mg/l	1 hours
Thethyleriediamile	LD50 Dermal	Rabbit	>20 mg/kg	1 Hours
	LD50 Oral	Rat	0.7 g/kg	-
4-isocyanatosulphonyltoluene		Rat	2234 mg/kg	-
propylidynetrimethanol	LD50 Oral LD50 Dermal	Rabbit	10 g/kg	-
propylidyrietiinietiianoi	LD50 Oral	Rat	14000 mg/kg	_
Ethyl Benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
Luiyi Delizerie	LD50 Dermal	Rabbit	17.8 g/kg	4 110015
	LD50 Oral	Rat	3.5 g/kg	_
methyl	LD50 Oral	Rat	3.125 g/kg	_
1,2,2,6,6-pentamethyl-	LDOU Oral	ixat	0.120 g/kg	-
4-piperidyl sebacate				
n-butyl methacrylate	LC50 Inhalation Gas.	Rat	4910 ppm	4 hours
n-butyi memadiyiate	LC50 Inhalation Gas.	Rat	29000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	10.2 g/kg	TIDUIS
	LD50 Dermai LD50 Oral	Rat		-
	LD30 Olal	rvat	16 g/kg	-

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>⋉</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

### **Sensitization**

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# 11. Toxicological information

Not available.

### **Mutagenicity**

Not available.

# **Carcinogenicity**

Not available.

# **Reproductive toxicity**

Not available.

## **Teratogenicity**

Not available.

# Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Butyl acetate	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
Propylene glycol monomethyl ether acetate	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
-	Category 3	-	Narcotic effects
Silica (silicon dioxide containing crystalline and amorphous)	Category 3	-	Respiratory tract irritation
Triethylenediamine	Category 2	-	central nervous system (CNS)
4-isocyanatosulphonyltoluene	Category 3	-	Respiratory tract irritation
Ethyl Benzene	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
n-butyl methacrylate	Category 3	-	Respiratory tract irritation

# Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Intanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system,
			respiratory organs
Silica (silicon dioxide containing crystalline and	Category 1	-	immune system,
amorphous)			kidneys,
			respiratory organs
Triethylenediamine	Category 1	-	upper respiratory
			tract
Ethyl Benzene	Category 1	-	hearing organs,
	_		nervous system
n-butyl methacrylate	Category 2	-	spleen

## **Aspiration hazard**

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Product name AMERCOAT 450H RAL 9003 WHITE RESIN

# 11. Toxicological information

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes eye irritation.

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

skin reaction.

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

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

**Eye contact** : Adverse symptoms may include the following:

irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

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

reduced fetal weight increase in fetal deaths skeletal malformations

# Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. 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.

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Product name AMERCOAT 450H RAL 9003 WHITE RESIN

# 11. Toxicological information

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: May damage fertility or the unborn child.

# **Numerical measures of toxicity**

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>B</b> utyl acetate	10768	N/A	N/A	N/A	N/A
Propylene glycol monomethyl ether acetate	6190	N/A	N/A	30	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
Triethylenediamine	700	2500	N/A	N/A	N/A
4-isocyanatosulphonyltoluene	2234	N/A	N/A	N/A	N/A
propylidynetrimethanol	14000	10000	N/A	N/A	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3125	N/A	N/A	N/A	N/A
n-butyl methacrylate	16000	10200	N/A	29	N/A

#### Other information

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

# 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Intanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Propylene glycol monomethyl ether acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Silica (silicon dioxide containing crystalline and amorphous)	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
. ,	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
Triethylenediamine	Acute EC50 180 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute LC50 1730000 to 1980000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours

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# 12. Ecological information

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
Propylene glycol monomethyl ether acetate	-	83 % - Readily - 28 days	-	-
Ethyl Benzene	-	79 % - Readily - 10 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>B</b> utyl acetate	-	-	Readily
Propylene glycol	-	-	Readily
monomethyl ether acetate			
Xylene	-	-	Readily
Ethyl Benzene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Butyl acetate	2.3	-	Low
Propylene glycol monomethyl ether acetate	1.2	-	Low
Xylene	3.12	7.4 to 18.5	Low
2-hydroxyethyl methacrylate	0.42	-	Low
propylidynetrimethanol	-0.47	-	Low
Ethyl Benzene	3.6	79.43	Low
n-butyl methacrylate	2.99	-	Low

# **Mobility in soil**

Soil/Water partition

coefficient

Mobility : Not available.

Other adverse effects

: No known significant effects or critical hazards.

: Not available.

# 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

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# 14. Transport information

	UN	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper PAINT shipping name		PAINT	PAINT	
Transport hazard class(es)	3	3	3	
Packing group	III	III	III	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	

#### **Additional information**

UN : None identified.IMDG : None identified.IATA : 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

# 15. Regulatory information

#### **Fire Service Law**

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	Ш	Flammable - Keep Fire Away	1000 L

### Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

### **Industrial Safety and Health Act**

## Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

## Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
▼tanium(IV) oxide	≥30 - ≤40	Listed	191, 2-623 (2025-04)
Butyl acetate	≥10 - ≤20	Listed	181, 2-603 (2025-04)
1-Methoxy-2-propyl acetate(2026-04)	≤10	Listed	2-610 (2026-04)
Crystalline silica	≤10	Listed	165-2

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# 15. Regulatory information

Silica, crystalline(2025-04)	≤10	Listed	2-578	
			(2025-04)	
Xylene	≤10	Listed	136, 2-426	
			(2025-04)	
Ethylbenzene	≤10	Listed	70, 2-247	
			(2025-04)	

### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
√tanium(IV) oxide	≥30 - ≤40	Listed	191, 2-623 (2025-04)
Butyl acetate	≥10 - ≤20	Listed	181, 2-603 (2025-04)
1-Methoxy-2-propyl acetate(2026-04)	≤10	Listed	2-610 (2026-04)
Crystalline silica	≤10	Listed	165-2
Silica, crystalline(2025-04)	≤10	Listed	2-578 (2025-04)
Xylene	≤10	Listed	136, 2-426 (2025-04)
2-Hydroxyethyl methacrylate(2025-04)	≤10	Listed	2-1994 (2025-04)
1,4-Diazabicyclo[2.2.2]octane(2025-04)	≤10	Listed	2-641 (2025-04)
Ethylbenzene	≤10	Listed	70, 2-247 (2025-04)

## Carcinogens based on Article 577-2 of the Ordinance on ISH

Ingredient name	%		Reference number
sílicon dioxide	≤10	Listed	-

#### Mutagen

None of the components are listed.

Corrosive liquid : Not listed

**Occupational Safety and** 

**Health Law** 

: Inflammable, Combustible

Regulations on the

**Prevention of Tetraalkyl** 

**Lead Poisoning** 

: Not listed

: Not listed

**Harmful Substances** 

Subject to Obtaining

Permission for

Manufacturing

Harmful Substances,

**Prohibited for** 

: Not listed

Manufacturing ISHL Enforcement Order

**Appendix 1 - Dangerous** 

Substances

: Inflammable, Combustible

Lead regulation : Not listed Organic solvents : Class 2

poisoning prevention

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# 15. Regulatory information

### **Poisonous and Deleterious Substances**

None of the components are listed.

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## **Chemical Substances Control Law (CSCL)**

Ingredient name	%	Status	Reference number
7,2,4-Trimethylbenzene	≤10	Priority assessment	49
Xylene	≤10	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Styrene	≤10	Priority assessment	47
Cumene	≤10	Priority assessment	126
1-Butanol	≤10	Priority assessment	124
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
Naphthalene	≤10	Priority assessment	76
2,6-Di-tert-butyl-4-methylphenol	≤10	Priority assessment	64

**High Pressure Gas Control** 

Law

**Explosives Control Law** 

None of the components are listed.

Law concerning prevention : Not available.

of pollution of the ocean

: Not available.

## **Maritime Safety Law**

### Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

**JSOH Carcinogen** : Group 2B List of Specially Controlled : Not listed

**Industrial Waste** 

**Japan inventory** : At least one component is not listed.

**Road law** : Not available.

# 16. Other information

# **History**

Date of issue/Date of : 24 August 2025

revision

**Date of previous issue** : 1/29/2024

**Version** : 21 **Prepared by** : EHS

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Product name AMERCOAT 450H RAL 9003 WHITE RESIN

# 16. Other information

**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** 

▼ Indicates information that has changed from previously issued version.

### **Notice to reader**

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.

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