# SAFETY DATA SHEET

AMERCOAT 450H LIGHT TINT RESIN



#### Date of issue 6 February 2024

Version 24

# 1. Product and company identification

Product name	: AMERCOAT 450H LIGHT TINT RESIN
Product code	: 00334608
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**

# 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	:	IF 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 ON SKIN: Wash with plenty of 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	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	:	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
Manium dioxide (excluding nanoparticle)	15 - <20	13463-67-7	1-558; 5-5225
Butyl acetate	7 - <10	123-86-4	2-731
Propylene glycol monomethyl ether acetate	2 - <3	108-65-6	2-3144
Solvent naphtha (petroleum), light aromatic	0.5 - <1	64742-95-6	Not available.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.2 - <0.5	41556-26-7	5-5501
n-butyl methacrylate	0.2 - <0.5	97-88-1	2-1039
Solvent naphtha (petroleum), heavy arom	0.2 - <0.5	64742-94-5	Not available.
Xylene	0.2 - <0.5	1330-20-7	3-3; 3-60
Acetone	0.2 - <0.5	67-64-1	2-542
Silica silicon dioxide containing crystalline and amorphous	0.2 - <0.5	7631-86-9	1-548
4-isocyanatosulphonyltoluene	0.1 - <0.2	4083-64-1	3-2222
Ethylbenzene	0.1 - <0.2	100-41-4	3-28; 3-60
2-hydroxyethyl methacrylate	0.1 - <0.2	868-77-9	2-1044
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - <0.2	82919-37-7	5-5593
Zirconium oxide	0.1 - <0.2	1314-23-4	1-563

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.

# 4. First aid measures

Description of necess	ary first aid measures
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/e	ffec	cts, acute and delayed
Potential acute health effec	ts	
Eye contact	:	Causes eye irritation.
Inhalation	1	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	1	No known significant effects or critical hazards.
<u>Over-exposure signs/symp</u>	ton	<u>15</u>
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 med	ica	l 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)

# 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
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 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. 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 co	ntainment 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 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 spilled product. Note: see Section 1 for

#### 6. Accidental release measures

emergency contact information and Section 13 for waste disposal.

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

# 7. Handling and storage

**Precautions for safe** : Put on appropriate personal protective equipment (see Section 8). Persons with a handling 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.  $CO_2$  will be formed, which, in closed containers, could result in pressurization.

## 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

# 8. Exposure controls/personal protection

Ingredient name		Exposure limits
Butyl acetate		Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 475 mg/m <sup>3</sup> 8 hours. OEL-M: 100 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020).
Xylene		TWA: 150 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m <sup>3</sup> 8 hours.
Acetone		Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 475 mg/m <sup>3</sup> 8 hours. OEL-M: 200 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 500 ppm 8 hours.
Ethylbenzene		Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-M: 87 mg/m <sup>3</sup> 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.
Recommended monitoring procedures		briate monitoring standards. Reference to the theorem in the tetermination of hazardous
Appropriate engineering controls	or other engineering controls to keep below any recommended or statutory	Jse process enclosures, local exhaust ventilation worker exposure to airborne contaminants limits. The engineering controls also need to ns below any lower explosive limits. Use t.
Environmental exposure controls	: Emissions from ventilation or work pr they comply with the requirements of	ocess equipment should be checked to ensure environmental protection legislation. In some ineering modifications to the process equipment
Individual protection measu	ires	
Hygiene measures	eating, smoking and using the lavato Appropriate techniques should be us Contaminated work clothing should n	oughly after handling chemical products, before ry and at the end of the working period. ed to remove potentially contaminated clothing. ot be allowed out of the workplace. Wash J. Ensure that eyewash stations and safety location.
Eye protection <u>Skin protection</u>	: Safety glasses with side shields.	

# 8 Exposure controls/personal 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

Solubility(ies)	cold water	Not soluble	
O a hash ilita (i a a)	Media	Result	
Relative density	: 1.4		
Vapor pressure	:2 kPa (15 mm Hg)		
Evaporation rate	: 0.86 (butyl acetate	= 1)	
Flash point	: Closed cup: 36.11°	C (97°F)	
Boiling point	: >37.78°C (>100°F)		
Odor	: Characteristic.		
Physical state	: Liquid.		
<u>Appearance</u>			

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

# 10. Stability and reactivity

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
titanium dioxide (excluding	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
nanoparticle)				
	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	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
monomethyl ether acetate			Ŭ	
,	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
Solvent naphtha (petroleum),		Rabbit	3.48 g/kg	-
light aromatic				
	LD50 Oral	Rat	8400 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate				
n-butyl methacrylate	LC50 Inhalation Gas.	Rat	4910 ppm	4 hours
, , , , , , , , , , , , , , , , , , ,	LC50 Inhalation Vapor	Rat	29000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	10.2 g/kg	-
	LD50 Oral	Rat	16 g/kg	-
Solvent naphtha (petroleum),		Rat	>5.2 mg/l	4 hours
heavy arom				
	LD50 Oral	Rat	>5 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Acetone	LC50 Inhalation Vapor	Rat	76000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
Silica silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	-
containing crystalline and			0.0	
amorphous				
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female	eeee mg/ng	
4-isocyanatosulphonyltoluene	I D50 Oral	Rat	2234 mg/kg	
Ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	4 110013
	LD50 Oral	Rat	3.5 g/kg	-
2 bydrowyotbyl mothecondate	LD50 Dermal	Rabbit		-
2-hydroxyethyl methacrylate	LD50 Dermai	Rat	>5 g/kg	-
mothyd			5050 mg/kg	-
methyl	LD50 Oral	Rat	3.125 g/kg	-
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

#### **Sensitization**

# 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
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
n-butyl methacrylate	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Silica silicon dioxide containing crystalline and amorphous	Category 3	-	Respiratory tract irritation
4-isocyanatosulphonyltoluene	Category 3	-	Respiratory tract irritation
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
n-butyl methacrylate	Category 2	-	spleen
Xylene	Category 1	-	nervous system, respiratory organs
Acetone	Category 1	-	central nervous system (CNS), gastrointestinal tract, respiratory organs
Silica silicon dioxide containing crystalline and amorphous	Category 1	-	immune system, kidneys,
		Ja	apan Page: 9/16

# 11. Toxicological information

			respiratory organs	I
Ethylbenzene	Category 1	-	hearing organs,	l
			nervous system	I

#### Aspiration hazard

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

Information on the likely routes of exposure		Not available.
Potential acute health effect		
Eye contact		Causes eye irritation.
Inhalation		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	1	Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the ph	ys	ical, 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 effect	ts	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
		Japan Page: 10/16

## 11. Toxicological information

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.
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)
Butyl acetate	10768	N/A	N/A	N/A	N/A
Propylene glycol monomethyl ether acetate	6190	N/A	N/A	30	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
bis(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
Xylene	4300	1700	N/A	11	N/A
Acetone	5800	15800	N/A	76	N/A
4-isocyanatosulphonyltoluene	2234	N/A	N/A	N/A	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3125	N/A	N/A	N/A	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
Manium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	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
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
Solvent naphtha (petroleum), heavy arom	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
Acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - <i>Acartia tonsa</i> - Copepodid	48 hours
	Acute LC50 5540 mg/l	Fish	96 hours
Silica silicon dioxide	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
	•	Japan	Page: 11/16

# 12. Ecological information

containing crystalline and amorphous		Neonate	
	Acute LC50 >10000 mg/l Chronic NOEC 12.5 mg/l Fresh water	Fish Daphnia - <i>Daphnia magna</i> -	96 hours 21 days
Ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Neonate Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum		
Butyl acetate	TEPA and OECD 301D	83 % - Read	dily - 28 days	-		-		
Propylene glycol monomethyl ether acetate	-	83 % - Readily - 28 days ·		83 % - Readily - 28 days -		-		-
Acetone	-	90.9 % - Readily - 28 days		-		-		
Ethylbenzene	-	79 % - Readily - 10 days		-		-		
	Aquatic half-life							
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability		
_	Aquatic half-life		Photolysis			•		
Butyl acetate Propylene glycol	Aquatic half-life - -		Photolysis - -		Biodeg Readily Readily	/		
Butyl acetate Propylene glycol monomethyl ether acetate	Aquatic half-life		Photolysis - -		Readily Readily	1		
Butyl acetate Propylene glycol	Aquatic half-life		Photolysis - - -		Readily	, ,		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Butyl acetate	2.3	-	Low
Propylene glycol	1.2	-	Low
monomethyl ether acetate			
n-butyl methacrylate	2.99	-	Low
Solvent naphtha (petroleum),	2.8 to 6.5	-	High
heavy arom			
Xylene	3.12	7.4 to 18.5	Low
Acetone	-0.23	3	Low
Ethylbenzene	3.6	79.43	Low
2-hydroxyethyl methacrylate	0.42	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Page: 12/16 Japan

#### 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.

# 14. Transport information

UN	IMDG	ΙΑΤΑ
UN1263	UN1263	UN1263
PAINT	PAINT	PAINT
3	3	3
III		III
No.	No.	No.
Not applicable.	Not applicable.	Not applicable.
	UN1263 PAINT 3 III No.	UN1263UN1263PAINTPAINT33IIIIIINo.No.

#### 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

# **15. Regulatory information**

#### Fire Service Law

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

#### Pollutant Release and Transfer Registers (PRTR)

Japan Page: 13/16

# 15. Regulatory information

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
Interview IT Antice The Iteration Interview Iteration Interview Iteration Interview Iteration Iteratioa Iteratioa Iteratioa Iteratioa Iteratio	≥10 - ≤20	Listed	191
Butyl acetate	≤10	Listed	181
Petroleum naphtha	≤10	Listed	330
Xylene	≤10	Listed	136
Crystalline silica	≤10	Listed	165-2
Ethylbenzene	≤10	Listed	70

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
✔Itanium(IV) oxide	≥10 - ≤20	Listed	191
Butyl acetate	≤10	Listed	181
Petroleum naphtha	≤10	Listed	330
Xylene	≤10	Listed	136
Acetone	≤10	Listed	17
Crystalline silica	≤10	Listed	165-2
Ethylbenzene	≤10	Listed	70

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

None of the components are listed.

#### <u>Mutagen</u>

None of the components are listed.

Corrosive liquid	: Not listed	
Occupational Safety and Health Law	: Inflammab	le
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed	
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed	
Harmful Substances, Prohibited for Manufacturing	: Not listed	
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammab	le
Lead regulation	: Not listed	
Organic solvents poisoning prevention	: Class 2	

## 15. Regulatory information

#### Poisonous and Deleterious Substances

#### None of the components are listed.

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

Ingredient name	%	Status	Reference number
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
Xylene	≤10	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
1,1'-Oxydi(propan-2-ol)	≤10	Priority assessment	240
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Naphthalene	≤10	Priority assessment	76
Styrene	≤10	Priority assessment	47
1-Butanol	≤10	Priority assessment	124
Cumene	≤10	Priority assessment	126
Formic acid	≤10	Priority assessment	117
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
Methacrylic acid	≤10	Priority assessment	35
2,6-Di-tert-butyl-4-methylphenol	≤10	Priority assessment	64
Hydroquinone	≤10	Priority assessment	203

High Pressure Gas Control : Not available. Law

#### **Explosives Control Law**

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

#### 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 2A
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: At least one component is not listed.
Road law	: Not available.

# 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 6 February 2024
Date of previous issue	: 8/18/2023
Version	: 24
Prepared by	: EHS

### 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.