# SAFETY DATA SHEET

#### AMERSHIELD DEEP TINT RESIN



Date of issue 13 August 2020

**Version 5** 

### 1. Product and company identification

Product name : AMERSHIELD DEEP TINT RESIN

Product code : 00333810 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

Tel: +81 78 574 2777 Fax: +81 78 576 0035

**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

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS** label elements

Hazard pictograms





Signal word : Danger

**Hazard statements** : Mammable 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.

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

system)

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

Japan Page: 1/15

### 2. Hazards identification

**Prevention** 

: Øbtain special instructions before use. 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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product.

Response

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. Take off contaminated clothing and wash it before reuse. 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 Disposal

- : Store in a well-ventilated place. Keep cool.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification

: Frolonged 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. ENCS number : Not available.

Ingredient name	%	CAS number	ENCS
Butyl acetate	12.5 - <15	123-86-4	2-731
titanium dioxide (nanoparticle)	10 - <12.5	13463-67-7	1-558; 5-5225
Propylene glycol methyl ether acetate	3 - <5	108-65-6	2-3144
Ethyl 3-ethoxy propanoate	1 - <2	763-69-9	2-1350; 2-1379
Solvent naphtha (petroleum), heavy arom.	0.5 - <1	64742-94-5	Not available.
crystalline silica (quartz)	0.5 - <1	14808-60-7	1-548
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.5 - <1	41556-26-7	5-5501
Acetone	0.2 - < 0.5	67-64-1	2-542
4-isocyanatosulphonyltoluene	0.1 - < 0.2	4083-64-1	3-2222
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
Silica silicon dioxide containing crystalline and	0.1 - < 0.2	7631-86-9	1-548
amorphous			
Naphthalene	0.1 - < 0.2	91-20-3	4-311

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.

Japan Page: 2/15

Date of issue 13 August 2020 Version 5

**Product name AMERSHIELD DEEP TINT RESIN** 

#### 4. First aid measures

Product code 00333810

#### **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.

Ingestion 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

Skin contact : Adverse symptoms may include the following:

> irritation redness dryness cracking

: No specific data. Ingestion

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

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

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)

**Japan** Page: 3/15

## 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 nonemergency 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 emergency

> **Japan** Page: 4/15

### 6. Accidental release measures

#### **Special provisions**

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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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

Japan Page: 5/15

# 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Butyl acetate	Japan Society for Occupational Health
	(Japan, 5/2019).
	OEL-M: 475 mg/m <sup>3</sup> 8 hours.
	OEL-M: 100 ppm 8 hours.
	ISHL (Japan, 10/2019).
	TWA: 150 ppm 8 hours.
titanium dioxide (nanoparticle)	Japan Society for Occupational Health
	(Japan, 5/2019).
	OEL-M: 1 mg/m³ 8 hours. Form: Respirable
	dust
	OEL-M: 4 mg/m³ 8 hours. Form: Total dust
	OEL-M: 0.3 mg/m³, (as Ti) 8 hours. Form:
	nanoparticle
crystalline silica (quartz)	Japan Society for Occupational Health
	(Japan, 5/2019).
	OEL-C: 0.03 mg/m³ Form: Respirable dust
Acetone	Japan Society for Occupational Health
	(Japan, 5/2019).
	OEL-M: 470 mg/m <sup>3</sup> 8 hours.
	OEL-M: 200 ppm 8 hours.
	ISHL (Japan, 10/2019).
	TWA: 500 ppm 8 hours.
Naphthalene	ISHL (Japan, 10/2019).
	TWA: 10 ppm 8 hours.

# procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 Skin protection**

: Safety glasses with side shields.

**Japan** Page: 6/15

### 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** 

: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 43.33°C (110°F)
Evaporation rate : 0.98 (butyl acetate = 1)

**Vapor pressure** : 2.6 kPa (19.5 mm Hg) [room temperature]

Relative density : 1.37

**Solubility** : Insoluble in the following materials: cold water.

Viscosity : Not Applicable

# 10. Stability and reactivity

Reactivity

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

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Chemical stability** 

: The product is stable.

Possibility of hazardous reactions

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.

**Hazardous decomposition** 

products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric

isocyanates.

Japan Page: 7/15

# 10. Stability and reactivity

# 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
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	-
titanium dioxide (nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Propylene glycol methyl ether acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
Ethyl 3-ethoxy propanoate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 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	-
4-isocyanatosulphonyltoluene	LD50 Oral	Rat	2234 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5050 mg/kg	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-
Silica silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	
containing crystalline and amorphous	LD30 Definal	Nabbit	2000 Hig/kg	-
·	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-

#### **Irritation/Corrosion**

Not available.

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

Japan Page: 8/15

# **Product name AMERSHIELD DEEP TINT RESIN**

# 11. Toxicological information

#### 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 methyl ether acetate	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethyl 3-ethoxy propanoate	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4-isocyanatosulphonyltoluene	Category 3	-	Respiratory tract irritation
Silica silicon dioxide containing crystalline and amorphous	Category 3	-	Respiratory tract irritation
Naphthalene	Category 1	-	blood, eyes, respiratory tract

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

Category	Route of exposure	Target organs
Category 1	-	respiratory system
Category 1	-	immune system,
		kidneys, respiratory system
Category 1	-	central nervous
		system (CNS),
		gastrointestinal
		tract, respiratory
0-4		system
Category 1	-	immune system,
		kidneys, respiratory
Catamam, 4		system
Category 1	-	blood, eyes, respiratory system
	Category 1 Category 1	Category 1 - Category 1 - Category 1 - Category 1 -

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes eye irritation.

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

**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

Japan Page: 9/15 Product code 00333810

Date of issue 13 August 2020

**Version 5** 

**Product name AMERSHIELD DEEP TINT RESIN** 

# 11. Toxicological information

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

irritation watering redness

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

wheezing and breathing difficulties

asthma

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

irritation redness dryness cracking

**Ingestion**: No specific data.

#### 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.

Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : 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 (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 methyl ether acetate	8532	N/A	N/A	N/A	N/A
Ethyl 3-ethoxy propanoate	3200	N/A	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
Acetone	5800	15800	N/A	76	N/A
4-isocyanatosulphonyltoluene	2234	N/A	N/A	N/A	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
Naphthalene	490	N/A	N/A	N/A	N/A

Other information :

Japan Page: 10/15

# 11. Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of 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
Butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
titanium dioxide (nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Propylene glycol methyl ether acetate	Acute LC50 161 mg/l Fresh water	Fish	96 hours
Ethyl 3-ethoxy propanoate	Acute LC50 60.9 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 - Acartia tonsa - Copepodid	48 hours
	Acute LC50 5540 mg/l	Fish	96 hours
Silica silicon dioxide containing crystalline and amorphous	Acute LC50 >10000 mg/l	Fish	96 hours

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum		
Butyl acetate	TEPA and OECD 301D	83 % - Rea	83 % - Readily - 28 days		83 % - Readily - 28 days			-
Acetone	-	90.9 % - Re	90.9 % - Readily - 28 days			-		
Product/ingredient name	Aquatic half-life	•	Photolysis		Biodeg	radability		
<b>B</b> utyl acetate	-		-		Readily	/		
Ethyl 3-ethoxy propanoate	-		-		Readily	/		
Acetone	-		-		Readily	/		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>B</b> utyl acetate	1.78	-	low
Propylene glycol methyl	0.56	-	low
ether acetate			
Acetone	-0.24	3	low
2-hydroxyethyl methacrylate	0.47	-	low
Naphthalene	3.3	85.11	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Japan Page: 11/15

Date of issue 13 August 2020

Product code 00333810

Version 5

**Product name AMERSHIELD DEEP TINT RESIN** 

# 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

### 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	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	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. : None identified. **IMDG 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 to IMO instruments

: Not applicable.

Page: 12/15 Japan

# 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)**

None of the components are listed.

#### **ISHL**

#### **Use of specified chemical substances**

Ingredient name	%	Status	Reference number
Maphthalene		Group-2 Substances under Supervision	-

#### **Substances requiring labelling**

Ingredient name	%	Status	Reference number
Sutyl acetate Crystalline silica	≤13	Listed	181
	<1.0	Listed	165-2
Titanium(IV) oxide	≥10 - ≤25	Listed	191
Crystalline silica	≤0.30	Listed	165-2

#### **Chemicals requiring notification**

<b>%</b>	Status	Reference number
		number
≤13	Listed	181
<1.0	Listed	17
<1.0	Listed	165-2
≥10 - ≤25	Listed	191
≤0.30	Listed	165-2
≤0.18	Listed	408
	≤13 <1.0 <1.0 ≥10 - ≤25 ≤0.30	≤13 Listed <1.0 Listed <1.0 Listed ≥10 - ≤25 Listed ≤0.30 Listed

#### Carcinogen

None of the components are listed.

#### **Mutagen**

None of the components are listed.

Corrosive liquid : Not listed

**Occupational Safety and** 

**Health Law** 

: Flammable liquid Class 4

Regulations on the Prevention of Tetraalkyl

**Lead Poisoning** 

: Not listed

Harmful Substances
Subject to Obtaining

Subject to Obtaining Permission for

: Not listed

Harmful Substances,

Prohibited for

: Not listed

Prohibited for Manufacturing

**Manufacturing** 

Japan Page: 13/15

Product code 00333810 Date of issue 13 August 2020 Version 5

**Product name AMERSHIELD DEEP TINT RESIN** 

### 15. Regulatory information

Dangerous Substances: Not listedLead regulation: Not listedOrganic solvents: Class 2

poisoning prevention

#### **Poisonous and Deleterious Substances**

None of the components are listed.

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

Ingredient name	%		Reference number
Acetone Naphthalene		Priority assessment Priority assessment	114 76

**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 and Maritime Disaster

#### **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 1
List of Specially Controlled : Not listed

**Industrial Waste** 

**Japan inventory** : All components are listed or exempted.

Road law : Not available.

### 16. Other information

#### **History**

Date of issue/Date of : 13 August 2020

revision

Date of previous issue : 3/26/2020

Version : 5
Prepared by : EHS

**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

Japan Page: 14/15

Date of issue 13 August 2020 Version 5

Product code 00333810

**Product name AMERSHIELD DEEP TINT RESIN** 

### 16. Other information

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.

Japan Page: 15/15