# SAFETY DATA SHEET

AMERSHIELD HIGH HIDING YELLOW TINT



#### Date of issue 8 February 2022

Version 5

### 1. Product and company identification

Product name	: AMERSHIELD HIGH HIDING YELLOW TINT
Product code Product type	: 00333818 : Liquid.
i loudot typo	

Relevant identified uses of th	e 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 2A
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 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

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2. Hazards identifi	2. Hazards identification				
Hazard statements	<ul> <li>Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. May cause damage to organs through prolonged or repeated exposure. (respiratory system) Harmful to aquatic life with long lasting effects.</li> </ul>				
Precautionary statements					
Prevention	: 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. 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. Call a POISON CENTER or doctor if you feel unwell. 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	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.				
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
Butyl acetate	15 - <20	123-86-4	2-731
titanium dioxide (excluding nanoparticle)	5 - <7	13463-67-7	1-558; 5-5225
Propylene glycol monomethyl ether acetate	5 - <7	108-65-6	2-3144
Ethyl 3-ethoxypropanoate	1 - <2	763-69-9	2-1350; 2-1379
Solvent naphtha (petroleum), heavy arom	1 - <2	64742-94-5	Not available.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.5 - <1	41556-26-7	5-5501
Acetone	0.5 - <1	67-64-1	2-542
crystalline silica (quartz)	0.2 - <0.5	14808-60-7	1-548
4-isocyanatosulphonyltoluene	0.2 - <0.5	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
Naphthalene	0.1 - <0.2	91-20-3	4-311

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### 3. Composition/information on ingredients

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

Descri	otion	of	necessary	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	<ul> <li>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.</li> </ul>
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.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Potential acute health	oms/effects, acute and delayed n effects
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma sympton or breathing difficulties if inhaled.</li> </ul>
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergi skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

### 4. First aid measures

Protection of first-aiders

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

See toxicological information (Section 11)

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 nitrogen oxides metal oxide/oxides	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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

### 6. Accidental release measures

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 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 : handling	Fut 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. 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: $50^{\circ}C$ ( $122^{\circ}F$ ). 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

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits		
Butyl acetate		Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 475 mg/m <sup>3</sup> 8 hours. OEL-M: 100 ppm 8 hours. ISHL (Japan, 6/2020). TWA: 150 ppm 8 hours.		
titanium dioxide (excluding nanoparticle)		Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust (Class 2 Dust) OEL-M: 4 mg/m <sup>3</sup> 8 hours. Form: Total dust (Class 2 Dust)		
Acetone		Japan Society for Occupational Health (Japan, 5/2020). OEL-M: 470 mg/m <sup>3</sup> 8 hours. OEL-M: 200 ppm 8 hours. ISHL (Japan, 6/2020). TWA: 500 ppm 8 hours.		
crystalline silica (quartz)		Japan Society for Occupational Health (Japan, 5/2020). OEL-C: 0.03 mg/m <sup>3</sup> Form: Respirable dust		
Naphthalene		<b>ISHL (Japan, 6/2020).</b> TWA: 10 ppm 8 hours.		
Recommended monitoring procedures	atmosphere or biological monitorir of the ventilation or other control n protective equipment. Reference	with exposure limits, personal, workplace ng may be required to determine the effectiveness neasures and/or the necessity to use respiratory should be made to appropriate monitoring guidance documents for methods for the ances 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				
ndividual protection measu	ires			
Hygiene measures	eating, smoking and using the lava Appropriate techniques should be Contaminated work clothing shoul	noroughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. d not be allowed out of the workplace. Wash ing. Ensure that eyewash stations and safety on location.		
Eye protection	: Safety glasses with side shields.			
Skin protection				

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### 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 rubberBody 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 approved by a specialist before handling this product.Respiratory protection: Jes 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.		
<ul> <li>Body protection</li> <li>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.</li> <li>Other skin protection</li> <li>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.</li> <li>Respiratory protection</li> <li>Se 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</li> </ul>	Hand protection	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
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	Gloves	: butyl rubber
<ul> <li>selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> <li>Se 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</li> </ul>	Body protection	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
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	Other skin protection	selected based on the task being performed and the risks involved and should be
	Respiratory protection	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

## 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Yellow.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 43.33°C (110°F)
Evaporation rate	: 0.97 (butyl acetate = 1)
Vapor pressure	: <mark>2.</mark> 4 kPa (17.8 mm Hg)
Relative density	: 1.16
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.
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.

**Exposure** 4 hours

4 hours

4 hours

4 hours

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4 hours

>20 g/kg

490 mg/kg

Rabbit

Rat

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### 10. Stability and reactivity

Hazardous decomposition products

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

### 11. Toxicological information

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Information on toxicological e	effects				
Acute toxicity					
Product/ingredient name	Result	Species	Dose		
<b>B</b> utyl acetate	LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	>21.1 mg/l 2000 ppm >17600 mg/kg 10.768 g/kg		
titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l		
	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg		
Propylene glycol monomethyl ether acetate	LC50 Inhalation Vapor	Rat	30 mg/l		
	LD50 Dermal LD50 Oral	Rabbit Rat	>5 g/kg 6190 mg/kg		
Ethyl 3-ethoxypropanoate	LD50 Dermal LD50 Oral	Rabbit Rat	>5 g/kg 3200 mg/kg		
Solvent naphtha (petroleum), heavy arom	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l		
	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 LD50 Dermal LD50 Oral	Rat Rabbit Rat	76000 mg/m³ 15.8 g/kg 5800 mg/kg		
4-isocyanatosulphonyltoluene 2-hydroxyethyl methacrylate	LD50 Dermal	Rat Rabbit Bat	2234 mg/kg >5 g/kg		
methyl	LD50 Oral LD50 Oral	Rat Rat	5050 mg/kg 3.125 g/kg		

LD50 Dermal

LD50 Oral

### Irritation/Corrosion

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Not available.

Naphthalene

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

Specific target organ toxicity (single exposure)

## 11. Toxicological information

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
Ethyl 3-ethoxypropanoate	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
Naphthalene	Category 1	-	blood, eyes, respiratory tract

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

Name	Category	Route of exposure	Target organs
Manium dioxide (excluding nanoparticle) Acetone	Category 1 Category 1	-	respiratory system central nervous system (CNS), gastrointestinal tract, respiratory
crystalline silica (quartz)	Category 1	-	system immune system, kidneys, respiratory system
Naphthalene	Category 1	-	blood, eyes, respiratory system

#### Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effec	<u>ts</u>	
Eye contact	1	Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. 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	:	Can cause central nervous system (CNS) depression.
<u>Symptoms related to the ph</u> Eye contact		ical, chemical and toxicological characteristics Adverse symptoms may include the following:
- <b>,</b>		pain or irritation watering redness

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Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Delaved and immediate effe	s and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>xts</u>
General	: May cause damage to organs through prolonged or repeated exposure. Prolong 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)
Butyl acetate	10768	N/A	N/A	N/A	N/A
Propylene glycol monomethyl ether acetate	6190	N/A	N/A	30	N/A
Ethyl 3-ethoxypropanoate	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

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### 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 (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Propylene glycol monomethyl ether acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethyl 3-ethoxypropanoate	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

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Butyl acetate	TEPA and OECD 301D	83 % - Rea	dily - 28 days	-		-
Propylene glycol monomethyl ether acetate Acetone	-		dily - 28 days eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeo	radability
Butyl acetate Propylene glycol monomethyl ether acetate Ethyl 3-ethoxypropanoate Acetone	- - -		-		Readily Readily Readily Readily	/ / /

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Butyl acetate	2.3	-	low
Propylene glycol	1.2	-	low
monomethyl ether acetate			
Ethyl 3-ethoxypropanoate	1.47	-	low
Solvent naphtha (petroleum),	2.8 to 6.5	-	high
heavy arom			
Acetone	-0.23	3	low
2-hydroxyethyl methacrylate	0.42	-	low
Naphthalene	3.4	85.11	low

#### Mobility in soil

Japan	Page: 11/15

### 12 Ecological information

	12. Leological information				
Soil/water partition coefficient (Koc)	: Not available.				
Mobility	: Not available.				
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 nonrecyclable 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
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

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

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

### 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**

#### Ordinance on the prevention of the hazard due to specified chemical substances

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

#### Substances requiring labelling

Ingredient name	%		Reference number
₩utyl acetate	≥10 - ≤20	Listed	181
Titanium(IV) oxide	≤10	Listed	191
Crystalline silica	≤10	Listed	165-2

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Butyl acetate Titanium(IV) oxide Acetone Crystalline silica Naphthalene	≥10 - ≤20 ≤10 ≤10 ≤10 ≤10 ≤10	Listed Listed Listed Listed Listed	181 191 17 165-2 408

#### **Carcinogen**

None of the components are 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
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
Dangerous Substances	: Inflammable, Combustible

#### Product name AMERSHIELD HIGH HIDING FELLOW

15. Regulatory information

Lead regulation

Organic solvents poisoning prevention

: Not listed : Class 2

### Poisonous and Deleterious Substances

None of the components are listed.

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

Ingredient name	%	Status	Reference number
Acetone	0.51103	Priority assessment	114
Naphthalene	0.13752	Priority assessment	76
Styrene	0.042586	Priority assessment	47
1-Butanol	0.031774	Priority assessment	124
alpha-(Nonylphenyl)-omega-hydroxypoly(oxyethylene); Poly(oxyethylene) nonylphenyl ether	0.0304	Priority assessment	86
1,2,4-Trimethylbenzene	0.01952	Priority assessment	49
Xylene	0.0066095	Priority assessment	125
1,3,5-Trimethylbenzene	0.003904	Priority assessment	201
Cumene	0.0015616	Priority assessment	126
Ethylbenzene	0.0011712	Priority assessment	50
1,4-Dioxane	0.000608	Priority assessment	80
2,6-Di-tert-butyl-4-methylphenol	0.0003876	Priority assessment	64
Chlorobenzene	0.0001863	Priority assessment	154
Toluene	0.00012237	Priority assessment	46
Acetaldehyde	0.000002432	Priority assessment	26
Ethylene oxide; Oxirane	0.000002432	Priority assessment	19
Benzene	0.0000023172	Priority assessment	45

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 1
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

16. Other information	
<u>History</u>	
Date of issue/Date of revision	: 8 February 2022
Date of previous issue	: 8/13/2020
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 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 the	at 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.