## **SAFETY DATA SHEET**



Date of issue 12/20/2023 (month/day/year)

Version 8.02

## Section 1. Chemical product and company identification

A. Product name : AMERCOAT 229T DEEP TINT RESIN

Product code : 00336519

B. 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**: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

**Email Address** 

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

**Emergency telephone** 

number:

: +82-52-210-8222

## Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

AQUATIC HAZARD (LONG-TERM) - Category 2

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol :









Signal word : Danger

**Hazard statements**: H226 - Flammable liquid and vapor.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer.

H411 - Toxic to aquatic life with long lasting effects.

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#### Section 2. Hazards identification

#### **Precautionary statements**

**Prevention** 

: P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

Response

P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage** 

P403 + P235 - Keep cool.

**Disposal** P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

C. Other hazards which do not result in

classification

: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

#### **CAS** number/other identifiers

**CAS** number : Not applicable.

Chemical name	Common name	Identifiers	%
heptan-2-one	HEPTAN-2-ONE	CAS: 110-43-0	10 -<20
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
2,2-bis(acryloyloxymethyl)butyl acrylate	Trimethylolpropane triacrylate	CAS: 15625-89-5	1 - <5
butan-1-ol	1-BUTANOL	CAS: 71-36-3	1 - <5
n-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	1 - <5
Hydroquinone and mixtures which	HYDROQUINONE	CAS: 123-31-9	0.1 - <1
contain 2.5% or more.			
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
maleic anhydride	MALEIC ANHYDRIDE	CAS: 108-31-6	<0.1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

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### Section 4. First aid measures

A. Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.

**B.** 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.

C. 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.

D. Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

: Treat symptomatically. Contact poison treatment specialist immediately if large E. 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)

## Section 5. Fire-fighting measures

A. 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.

from the chemical

B. Specific hazards arising : 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 toxic 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

C. Special equipment for fire-fighting

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

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## Section 5. Fire-fighting measures

Fire-fighting procedures : 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.

### Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
- : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **B. 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. Collect spillage.

#### C. 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 contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

- A. Precautions for safe handling
- Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.

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## Section 7. Handling and storage

- B. Conditions for safe storage, including any incompatibilities
- 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.

## Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

Ingredient name	Exposure limits
reptan-2-one	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 50 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: total dust
	with less than 1% of free SiO2
butan-1-ol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
I hadron victor of an internet subject of the contain O 50/ on more	TWA: 150 ppm 8 hours.
Hydroquinone and mixtures which contain 2.5% or more.	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
othylbon zon o	TWA: 2 mg/m³ 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
maleic anhydride	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 0.4 mg/m <sup>3</sup> 8 hours.
	TVVA. 0.4 Mg/M o Mours.

# Recommended monitoring procedures

- : 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.
- B. 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.

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## Section 8. Exposure controls/personal protection

#### C. Personal protective equipment

**Respiratory protection**: Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is

necessary.

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

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 : polyethylene 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.

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

A. Appearance

Physical state : Liquid.

Color : Not available.

B. Odor : Characteristic.

C. Odor threshold : Not available.

D. pH : Not applicable.

E. Melting/freezing point : Not available.

F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 42.22°C (108°F)

H. Evaporation rate : 0.43 (butyl acetate = 1)

I. Flammability (solid, gas) : Not available.

J. Lower and upper : Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)

explosive (flammable)

limits

**K. Vapor pressure** : 0.45 kPa (3.4 mm Hg)

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## Section 9. Physical and chemical properties

L. Solubility(ies) : Media Result cold water Not soluble

Solubility in water : 2.8 g/l

Vapor density : Not available.

Relative density : 1.2

Partition coefficient: n-

O. octanol/water

: Not applicable.

P. Auto-ignition temperature

Ingredient name	°C	°F	Method
2-methoxy-1-methylethyl acetate	333	631.4	DIN 51794

Decomposition

temperature

Not available.

Viscosity: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Flow time (ISO 2431) : Not available.

Molecular weight : Not applicable.

## Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

**Possibility of hazardous** 

reactions

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

B. Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

**C.** Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

D. Hazardous : Depending on conditions, decomposition products may include the following

decomposition products materials: carbon oxides metal oxide/oxides

## **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Ingestion**: Can cause central nervous system (CNS) depression.

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

reaction.

**Eye contact** : Causes serious eye damage.

Over-exposure signs/symptoms

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## **Section 11. Toxicological information**

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

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

stomach pains

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

pain or irritation

redness dryness cracking

blistering may occur

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

watering redness

# B. Health hazards Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Feptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2,2-bis(acryloyloxymethyl)butyl acrylate	LD50 Dermal	Rabbit	5170 mg/kg	-
	LD50 Oral	Rat	5.19 g/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
n-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	-
Hydroquinone and mixtures which contain 2.5% or more.	LD50 Oral	Rat	302 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-

**Conclusion/Summary**: There are no data available on the mixture itself.

#### **Irritation/Corrosion**

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## **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2-bis(acryloyloxymethyl)butyl	Skin - Irritant	Rabbit	-	-	-
acrylate					

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.
 Eyes : There are no data available on the mixture itself.
 Respiratory : There are no data available on the mixture itself.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
2,2-bis(acryloyloxymethyl) butyl acrylate	skin	Rabbit	Sensitizing

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Reproductive toxicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

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

Name	Classification	Route of exposure	Target organs
heptan-2-one	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects

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

Name	Classification	Route of exposure	Target organs
maleic anhydride	Category 1	inhalation	respiratory system

#### **Aspiration hazard**

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Section 11. Toxicological information			

Name	Result
heptan-2-one ethylbenzene	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

General : 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** : Suspected of causing 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.

#### **Additional 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. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
heptan-2-one	CAS: 110-43-0	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
titanium dioxide	CAS: 13463-67-7	CARCINOGÉNICITY - Category 2
2,2-bis(acryloyloxymethyl)butyl acrylate	CAS: 15625-89-5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
butan-1-ol	CAS: 71-36-3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
n-butyl acetate	CAS: 123-86-4	FLAMMABLE LIQUIDS - Category 2

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## Section 11. Toxicological information

Hydroquinone and mixtures which contain 2.5% or more.	CAS: 123-31-9	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ACUTE TOXICITY (oral) - Category 4
Contain 2.5 % of more.		SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 2 AQUATIC HAZARD (ACUTE) - Category 1
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
maleic anhydride	CAS: 108-31-6	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

## Section 12. Ecological information

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
reptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
2,2-bis(acryloyloxymethyl) butyl acrylate	Acute LC50 0.87 mg/l	Fish	96 hours
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
•	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reptan-2-one	OECD 310	69 % - Readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	-	83 % - Readily - 28 days	-	-
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<mark>⊮</mark> eptan-2-one	-	-	Readily
2-methoxy-1-methylethyl	-	-	Readily
acetate			
n-butyl acetate	-	-	Readily
ethylbenzene	-	-	Readily

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## Section 12. Ecological information

#### C. Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
Feptan-2-one	2.26	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
2,2-bis(acryloyloxymethyl) butyl acrylate	0.67	-	Low
butan-1-ol	1	-	Low
n-butyl acetate	2.3	-	Low
Hydroquinone and mixtures which contain 2.5% or more.	0.59	-	Low
ethylbenzene	3.6	79.43	Low
maleic anhydride	-2.78	-	Low

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### A. 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.

#### **B.** Disposal precautions

: 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.

## **Section 14. Transport information**

	UN	IMDG	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III

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## **Section 14. Transport information**

Environmental	Yes. The environmentally	Yes.	Yes. The environmentally
hazards	hazardous substance mark is not required.		hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(2,2-bis(acryloyloxymethyl) butyl acrylate)	Not applicable.

#### **Additional information**

UN : None identified.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

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

Transport in bulk according : Not applicable.

to IMO instruments

## Section 15. Regulatory information

#### A. Regulation according to ISHA

**ISHA article 117** : None of the components are listed.

(Harmful substances prohibited from manufacture)

**ISHA article 118** : None of the components are listed.

(Harmful substances requiring permission)

Article 2 of Youth Protection : It is not allowed to sell to persons under the age of 19.

Act on Substances Hazardous

Act on Substances Hazardou

to Youth

#### **Exposure Limits of Chemical Substances and Physical Factors**

The following components have an OEL:

reptan-2-one titanium dioxide butan-1-ol

n-butyl acetate

Hydroquinone and mixtures which contain 2.5% or more.

ethylbenzene maleic anhydride

**ISHA Enforcement Regs**: None of the components are listed.

Annex 19 (Exposure standards established for harmful factors)

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## Section 15. Regulatory information

**ISHA Enforcement Regs Annex 21 (Harmful** factors subject to Work

: The following components are listed: methyl n-amyl ketone, titanium dioxide, nbutanol, n-butyl acetate

**Environment** Measurement)

Annex 22 (Harmful **Factors Subject to Special Health Check**up)

ISHA Enforcement Regs : The following components are listed: Methyl n-amyl ketone, n-Butanol

Standard of Industrial **Safety and Health Annex 12 (Hazardous** 

substances subject to control)

: The following components are listed: methyl n-amyl ketone, titanium dioxide, n-

butanol, n-butyl acetate

#### B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Ethylbenzene

Article 18 Prohibited (K-

Reach Article 27)

: None of the components are listed.

**Article 19 Subject to** authorization (K-Reach

Article 25)

: None of the components are listed.

Article 20 Restricted (K-

: None of the components are listed. Reach Article 27)

: Not applicable

**Article 20 Toxic Chemicals (K-Reach** 

Article 20)

: All components are listed or exempted. **Korea inventory** : None of the components are listed.

**Article 39 (Accident Precaution Chemicals**) C. Dangerous Materials

: Class: Class 4 - Flammable Liquid **Safety Management Act** 

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

D. Wastes regulation : Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### E. Regulation according to other foreign laws

Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product

(including its ingredients).

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**Product name AMERCOAT 229T DEEP TINT RESIN** 

### Section 16. Other information

A. References : Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

**NIER Notice** 

Registry of Toxic Effects of Chemical Substances (RTECS)

U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

B. Date of issue/Date of

revision

: 12/20/2023

C. Version : 8.02
Prepared by : EHS

D. Other

**▼** Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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