# SAFETY DATA SHEET



**Date of issue** 12/29/2021 (month/day/year) A001475300000034 **SDS Number:** 

Version 3.02

### Section 1. Chemical product and company identification

: AMERCOAT 253 CURE A. Product name

: 00334188 **Product code** 

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

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**Emergency telephone** 

number:

: +82-52-210-8222

### Section 2. Hazards identification

A. Hazard classification FLAMMABLE LIQUIDS - Category 3

> CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 2

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

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

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

Category 3

AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

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** 







Korea (GHS) Page: 1/14

**Product name AMERCOAT 253 CURE** 

### Section 2. Hazards identification

#### Signal word

: Danger

#### **Hazard statements**

- : H226 Flammable liquid and vapor.
  - H290 May be corrosive to metals.
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.
  - H330 Fatal if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H351 Suspected of causing cancer.
  - H410 Very toxic to aquatic life with long lasting effects.

#### **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.
- P284 In case of inadequate ventilation wear respiratory 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.
- P234 Keep only in original packaging. P273 - Avoid release to the environment.
- P260 Do not breathe vapor.
- P270 Do not eat, drink or smoke when using this product.
- P264 Wash thoroughly after handling.

#### Response

- : P391 Collect spillage.
  - P390 Absorb spillage to prevent material damage.
  - P308 + P313 IF exposed or concerned: Get medical advice or attention. P304 + P340, P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 IF SWALLOWED: Immediately call a POISON
  - CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
  - P303 + P361 + P353, P310 IF ON SKIN (or hair): Take off immediately all
  - contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
  - P363 Wash contaminated clothing 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.

#### **Storage**

- : P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
  - 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
- : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Korea (GHS) Page: 2/14

Product code 00334188 Date of issue 12/29/2021 (month/day/year) Version 3.02

Product name AMERCOAT 253 CURE

# Section 3. Composition/information on ingredients

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

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
4,4'-methylenebis(2-ethylaniline)	4,4'-METYLENEBIS (O-ETHYLANILINE)	CAS: 19900-65-3	40 - <50
butan-1-ol	1-BUTANOL	CAS: 71-36-3	20 - <30
cyclohex-1,2-ylenediamine	DIAMINOCYCLOHEXANE	CAS: 694-83-7	5 - <10
2,4,6-tris(dimethylaminomethyl)phenol	2;4;6 TRIS (DIMETHYLAMINOMETHYL) PHENOL	CAS: 90-72-2	5 - <10
2,2'-iminodiethylamine	DIETHYLENETRIAMINE	CAS: 111-40-0	1 - <5
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5

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.

# Section 4. First aid measures

S	ection 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.
В.	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.
E.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	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)

Korea (GHS) Page: 3/14

**Product name AMERCOAT 253 CURE** 

# Section 5. Fire-fighting measures

### A. Extinguishing media

Suitable extinguishing

media

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

: Do not use water jet.

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 very 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

nitrogen 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.

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. Absorb spillage to prevent material damage. 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. Absorb spillage to prevent material damage. 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

> Korea (GHS) Page: 4/14

**Product name AMERCOAT 253 CURE** 

### Section 6. Accidental release measures

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. Absorb spillage to prevent material damage.
- 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 in a corrosion resistant container with a resistant inner liner. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep away from metals. 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
butan-1-ol 2,2'-iminodiethylamine	Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin.  TWA: 20 ppm 8 hours.  Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin.  TWA: 1 ppm 8 hours.

# Recommended monitoring procedures

: 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.

Korea (GHS) Page: 5/14

**Product name AMERCOAT 253 CURE** 

### Section 8. Exposure controls/personal protection

controls

B. Appropriate engineering: 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.

#### 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 **Hand protection**  Chemical splash goggles and face shield.

: 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.

**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. Not available. C. Odor threshold D. pH : Not applicable. E. Melting/freezing point : Not available.

> Korea (GHS) Page: 6/14

**Product name AMERCOAT 253 CURE** 

## Section 9. Physical and chemical properties

F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 47.78°C (118°F)
H. Evaporation rate : 0.46 (butyl acetate = 1)

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

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

K. Vapor pressure : 0.59 kPa (4.4 mm Hg)

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

Solubility in water : 4.8 g/l

M. Vapor density : Not available.

N. Relative density : 0.98

O. Partition coefficient: n-

octanol/water

: Not applicable.

P. Auto-ignition temperature

Ingredient name	°C	°F	Method
butan-1-ol	355	671	EU A.15

Q. Decomposition

temperature

: Not available.

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

Flow time (ISO 2431) : Not available.

S. 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 nitrogen oxides

Korea (GHS) Page: 7/14

**Product name AMERCOAT 253 CURE** 

# **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Inhalation : Fatal if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness or dizziness. May cause respiratory irritation.

Ingestion : Harmful if swallowed. Corrosive to the digestive tract. Causes burns. Can cause

central nervous system (CNS) depression.

**Skin contact**: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

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

#### Over-exposure signs/symptoms

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

respiratory tract irritation

coughing

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:

pain watering redness

# B. Health hazards Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
cyclohex-1,2-ylenediamine	LD50 Oral	Rat	4556 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
2,2'-iminodiethylamine	LC50 Inhalation Dusts and mists	Rat	0.07 to 0.3 mg/l	4 hours
	LD50 Dermal	Rabbit	1090 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	_
	LD50 Oral	Rat	1.23 g/kg	-

Korea (GHS) Page: 8/14

**Product name AMERCOAT 253 CURE** 

# **Section 11. Toxicological information**

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,6-tris(dimethylaminomethyl) phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

**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
2,4,6-tris (dimethylaminomethyl)phenol	skin	Guinea pig	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
butan-1-ol	Category 3	-	Respiratory tract irritation
2,2'-iminodiethylamine	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

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

Not available.

#### **Aspiration hazard**

Korea (GHS)	Page: 9/14
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Product name AMERCOAT 253 CURE  Section 11. Toxicological in		
Product code 00334188	Date of issue 12/29/2021 (month/day/year)	Version 3.02

#### Potential chronic health effects

Name

benzyl alcohol

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

Result

ASPIRATION HAZARD - Category 2

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**

Causes digestive tract burns. 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. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
4,4'-methylenebis(2-ethylaniline)	CAS: 19900-65-3	ACUTE TOXICITY (oral) - Category 4 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
cyclohex-1,2-ylenediamine	CAS: 694-83-7	FLAMMABLE LIQUIDS - Category 4 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
2,2'-iminodiethylamine	CAS: 111-40-0	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE

Korea (GHS) Page: 10/14

Product code 00334188 Product name AMERCOAT 253 CURE	Date of	issue 12/29/2021 (month/day/year)	Version 3.02
Section 11. Toxicologica	I information		
benzyl alcohol	CAS: 100-51-6	EXPOSURE) (Respiratory tract irr Category 3 ACUTE TOXICITY (oral) - Category ACUTE TOXICITY (dermal) - Category ACUTE TOXICITY (inhalation) - CEYE IRRITATION - Category 2A ASPIRATION HAZARD - Category	ory 4 egory 4 ategory 4

# **Section 12. Ecological information**

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
2,4,6-tris (dimethylaminomethyl) phenol	Acute LC50 175 mg/l	Fish	96 hours
2,2'-iminodiethylamine	Acute LC50 430 mg/l	Fish	96 hours

### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,2'-iminodiethylamine	-	87 % - Readily - 21 days	-	_

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2'-iminodiethylamine benzyl alcohol	-	-	Readily Readily

### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
butan-1-ol	1	-	low
2,4,6-tris	0.219	-	low
(dimethylaminomethyl) phenol			
2,2'-iminodiethylamine benzyl alcohol	-5.58 0.87	4.47	low low

### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects : No known significant effects or critical hazards.

Korea (GHS) Page: 11/14

Date of issue 12/29/2021 (month/day/year) Version 3.02

**Product name AMERCOAT 253 CURE** 

# Section 13. Disposal considerations

### A. Disposal methods

Product code 00334188

: 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	UN3470	UN3470	UN3470
B. UN proper shipping name	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE
C. Transport hazard class(es)	8 (3)	8 (3)	8 (3)
D. Packing group	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(4,4'-methylenebis (2-ethylaniline))	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

Korea (GHS) Page: 12/14

**Product name AMERCOAT 253 CURE** 

# **Section 15. Regulatory information**

#### A. Regulation according to ISHA

**ISHA** article 117 (Harmful substances prohibited from manufacture)

: None of the components are listed.

**ISHA** article 118 (Harmful substances requiring permission) : None of the components are listed.

**Article 2 of Youth Protection Act on Substances Hazardous** to Youth

: It is not allowed to sell to persons under the age of 19.

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

The following components have an OEL:

butan-1-ol

2,2'-iminodiethylamine

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

**Annex 19 (Exposure** standards established for harmful factors)

**ISHA Enforcement Regs** : The following components are listed: n-butanol, diethylenetriamine

**Annex 21 (Harmful** factors subject to Work

**Environment Measurement)** 

ISHA Enforcement Regs : The following components are listed: n-Butanol, Diethylenetriamine

**Annex 22 (Harmful Factors Subject to Special Health Check-**

up)

**Standard of Industrial Safety and Health Annex 12 (Hazardous** substances subject to control)

: The following components are listed: n-butanol, diethylenetriamine

B. Regulation according to Chemicals Control Act

**CCA Article 11 (TRI)** : None of the components are listed. Article 18 Prohibited (K-: None of the components are listed.

**Reach Article 27)** 

**Article 19 Subject to** 

authorization (K-Reach

: None of the components are listed.

Article 25)

**Article 20 Restricted (K-**

Reach Article 27)

: None of the components are listed.

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

Article 20)

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

: Not applicable

Korea (GHS) Page: 13/14

**Product name AMERCOAT 253 CURE** 

### **Section 15. Regulatory information**

CCA Article 39 (Accident Precaution

: None of the components are listed.

Chemicals)

C. <u>Dangerous Materials</u> <u>Safety Management Act</u> : Class: Class 4 - Flammable Liquid

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).

### 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

: 12/29/2021

C. Version : 3.02
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.

Korea (GHS) Page: 14/14