SAFETY DATA SHEET



Date of issue 1/15/2020 (month/day/year)

Version 7.01

Section 1. Chemical product and company identification

: AMERCOAT 71TC RESIN TR GREY A. Product name

Product code : 00280993

B. Relevant identified uses of the substance or mixture and uses advised against

Product use : Professional applications, Used by spraying. : Coating. Paint. Painting-related materials. Use of the substance/

mixture

Uses advised against : Product is not intended, labelled or packaged for consumer use.

C. Supplier's information : 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:

Email Address

: +82-52-210-8222

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

> ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - 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

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous

system (CNS), kidneys, liver) - 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









Signal word : Danger

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Product name AMERCOAT 71TC RESIN TR GREY

Section 2. Hazards identification

Hazard statements

: H226 - Flammable liquid and vapor.

H332 - Harmful if inhaled.

H318 - Causes serious eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H351 - Suspected of causing cancer.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

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

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

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

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P233 - Keep container tightly closed.

P271 - Use only outdoors or in a well-ventilated area.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P240 - Ground/bond container and receiving equipment.

Response

: P314 - Get medical attention if you feel unwell.

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

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical 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 physician.

Storage

: P405 - Store locked up.

P403 - Store in a well-ventilated place. P233 - Keep container tightly closed.

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.

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Product name AMERCOAT 71TC RESIN TR GREY

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
Kylene	Xylene	CAS: 1330-20-7	30 - <40
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</td><td>CAS: 25036-25-3</td><td>20 - <30</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	20 - <30
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	5 - <10
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	1 - <5
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	0.1 - <1
Toluene	Toluene	CAS: 108-88-3	0.1 - <1
carbon black, respirable powder	CARBON BLACK	CAS: 1333-86-4	0.1 - <1
Benzene	Benzene	CAS: 71-43-2	<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.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

A. Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids
	apart for at least 10 minutes and seek immediate medical advice.

- 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.
- E. Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment. **Protection of first-aiders** : No action shall be take

: 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)

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Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

B. 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.

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.

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).

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.

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Section 7. Handling and storage

A. Precautions for safe handling

- Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- B. Conditions for safe storage, including any incompatibilities
- : Store between the following temperatures: 0 to 35°C (32 to 95°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
⋉ ylene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Tale not containing asheatiform fibres	···
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
titanium dioxide	TWA: 2 mg/m³ 8 hours. Form: fibers
ilianium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	TWA: 10 mg/m³ 8 hours. Form: total dust
4 mathydrautau 2 ana	with less than 1% of free SiO2
4-methylpentan-2-one	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 75 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
1-methoxy-2-propanol	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
ethanol	Ministry of Employment and Labor

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Product name AMERCOAT 71TC RESIN TR GREY

Section 8. Exposure controls/personal protection

(Republic of Korea, 7/2018). TWA: 1000 ppm 8 hours.

Toluene Ministry of Employment and Labor (Republic of Korea, 7/2018).

STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.

carbon black, respirable powder

Ministry of Employment and Labor

(Particle of Korea 7/2018)

(Republic of Korea, 7/2018).

TWA: 3.5 mg/m³ 8 hours. Form: inhalable

fraction

Ministry of Employment and Labor (Republic of Korea, 7/2018). Absorbed through skin.

TWA: 0.5 ppm 8 hours.

STEL: 2.5 ppm 15 minutes.

Recommended monitoring procedures

Benzene

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.

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.

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.

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

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Section 8. Exposure controls/personal protection

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.

: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)

Section 9. Physical and chemical properties

A. Appearance

Physical state : Liquid. Color Gray. B. Odor : Aromatic. : Not available. C. Odor threshold D. pH : Not available. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: 26°C (78.8°F)

H. Evaporation rate : Not available. I. Flammability (solid, gas) : Not available.

J. Lower and upper explosive (flammable)

limits

K. Vapor pressure : Not available.

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

M. Vapor density : Not available.

: 1.18 N. Relative density

O. Partition coefficient: n-: Not available.

octanol/water

P. Auto-ignition : Not available.

temperature

Q. Decomposition : Not available.

temperature

: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt) R. Viscosity

S. Molecular weight : Not applicable.

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Product name AMERCOAT 71TC RESIN TR GREY

Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

Possibility of hazardous

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

reactions

: When exposed to high temperatures may produce hazardous decomposition

products.

C. Incompatible materials

B. Conditions to avoid

: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

D. Hazardous decomposition products

: Depending on conditions, decomposition products may include the following

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

drowsiness or dizziness. May cause respiratory irritation.

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

Skin contact: Causes skin irritation. 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

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Product name AMERCOAT 71TC RESIN TR GREY

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Kylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Oral	Rat	2.08 g/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	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
carbon black, respirable powder	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-
Benzene	LD50 Oral	Rat	930 mg/kg	-

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

Irritation/Corrosion

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

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

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

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Product name AMERCOAT 71TC RESIN TR GREY

Section 11. Toxicological information

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

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
▼ylene	Category 3	Not applicable.	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	Not applicable.	Respiratory tract irritation
4-methylpentan-2-one	Category 3	Not applicable.	Respiratory tract irritation
1-methoxy-2-propanol Toluene	Category 3 Category 3		Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 1		central nervous system (CNS), kidneys and liver
Toluene Benzene	- 5)		Not determined Not determined

Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Additional information

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. Wash thoroughly after handling. Emits toxic fumes when heated.

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Product name AMERCOAT 71TC RESIN TR GREY

Section 11. Toxicological information

Chemical name Common name CAS# **GHS Classification** Xylene 1330-20-7 FLAMMABLE LIQUIDS - Category 3 Xylene ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category SERIOUS EYE DAMAGE/ EYE IRRITATION Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), kidneys, liver) - Category 1 Epoxy Resin (700<MW **EPOXY RESIN (AVERAGE** 25036-25-3 SKIN CORROSION/IRRITATION - Category <=1100) MOLECULAR WEIGHT >700 - <1100) SERIOUS EYE DAMAGE/ EYE IRRITATION Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY Talc, not containing Talc, non-asbestos form 14807-96-6 asbestiform fibres (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 titanium dioxide TITANIUM DIOXIDE 13463-67-7 CARCINOGENICITY - Category 2 4-methylpentan-2-one 4-METHYLPENTAN-2-ONE 108-10-1 FLAMMABLE LIQUIDS - Category 2 METHYL ISOBUTYL KETONE ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ethylbenzene **ETHYLBENZENE** 100-41-4 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 PROPYLENE GLYCOL 107-98-2 FLAMMABLE LIQUIDS - Category 3 1-methoxy-2-propanol MONOMETHYL ETHER SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -Category 3 ETHYL ALCOHOL FLAMMABLE LIQUIDS - Category 2 ethanol 64-17-5 SERIOUS EYE DAMAGE/ EYE IRRITATION Category 2 CARCINOGENICITY - Category 2 Toluene Toluene 108-88-3 FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category TOXIC TO REPRODUCTION (Fertility) -Category 2 TOXIC TO REPRODUCTION (Unborn child) Category 2

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Section 11. Toxicological information

carbon black, respirable	CARBON BLACK	1333-86-4	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2
powder	0, 11, 12, 0, 11, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14		or in control of the
Benzene	Benzene	71-43-2	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓ylene	-	-	Readily
ethylbenzene	-	-	Readily
ethanol	-	-	Readily
Toluene	-	-	Readily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	3.16	7.4 to 18.5	low
4-methylpentan-2-one	1.31	-	low
ethylbenzene	3.15	79.43	low
ethanol	-0.31	-	low
Toluene	2.73	8.32	low
Benzene	2.13	4.27	low

D. Mobility in soil

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Product name AMERCOAT 71TC RESIN TR GREY

Section 12. Ecological information

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
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

UN : None identified.IMDG : None identified.IATA : None identified.

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.

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Product name AMERCOAT 71TC RESIN TR GREY

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 37 (Harmful substances prohibited

: None of the components are listed.

from manufacture)

ISHA article 38 (Harmful substances requiring

: None of the components are listed.

permission)

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

to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

Xvlene

Talc, not containing asbestiform fibres

titanium dioxide

4-methylpentan-2-one

ethylbenzene

1-methoxy-2-propanol

ethanol

Toluene

carbon black, respirable powder

Benzene

ISHA Enforcement Regs Annex 11-3 (Exposure standards established for harmful factors)

: The following components are listed: Benzene

ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work **Environment Measurement)**

: The following components are listed: Xylene, o,m,p-isomers Preparations containing material at weight ratio of 1% or more, Ethylbenzene Preparations containing material at weight ratio of 1% or more, Titanium dioxide Preparations containing material at weight ratio more than 1%, Talc, non-asbestos form/Soap stone less than 1% crystalline silica; (Mineral dust), Methyl isobutyl ketone Preparations containing material at weight ratio of 1% or more

ISHA Enforcement Regs Annex 12-2 (Harmful **Factors Subject to Special Health Check-up)**

The following components are listed: Xylene, Ethylbenzene, Methyl isobutyl ketone

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

The following components are listed: xylene, ethyl benzene, titanium dioxide, methyl isobutyl ketone

B. Regulation according to Chemicals Control Act

CCA Article 20 Toxic

Chemicals (K-Reach Article 20)

CCA Article 18

: Not applicable

Prohibited (K-Reach

Article 27)

: None of the components are listed.

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Product name AMERCOAT 71TC RESIN TR GREY

Section 15. Regulatory information

CCA Article 20

Restricted (K-Reach

Article 27)

CCA Article 11 (TRI)

: None of the components are listed.

: The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene : All components are listed or exempted.

Korea inventory

Precaution Chemicals)

CCA Article 39 (Accident : None of the components are listed.

C. Dangerous Materials **Safety Management Act** : 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

: 1/15/2020

C. Version 7.01 Prepared by : EHS

D. Other

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 1, H372 (central nervous system (CNS), kidneys, liver)	Calculation method

▼ Indicates information that has changed from previously issued version.

Disclaimer

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Product name AMERCOAT 71TC RESIN TR GREY

Section 16. Other information

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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