# SAFETY DATA SHEET

#### **AMERCOAT 138G DK GRAY TYPE I/II/IV KIT**



Date of issue 24 June 2025

Version 20

# 1. Product and company identification

Product name : AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

Product code : 00333924 Product type : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe

652-0803 Japan; Tel: +81-78-574-2777

**Emergency telephone** 

number

: 078 574 2777

### 2. Hazards identification

GHS Classification : FLAMMABLE LIQUIDS - Category 3

SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 3

**GHS label elements** 

Hazard pictograms :







Signal word : Danger

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

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

May cause cancer.

May cause damage to organs. (respiratory organs)

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

Japan Page: 1/19

### 2. Hazards identification

nervous system (CNS), lungs, respiratory organs) Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

: F exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage Disposal** 

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

result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

# 3. Composition/information on ingredients

Substance/mixture : Mixture

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

**CAS** number : Not applicable. **CSCL** number : Not available.

Ingredient name	%	CAS number	CSCL
Muminium oxide	25 - <50	1344-28-1	1-23
bis-[4-(2,3-epoxipropoxi)phenyl]propane	7 - <10	1675-54-3	4-209; 7-1279;
			7-1283
Amorphous silica (silica gel, precipitated silica)	7 - <10	112926-00-8	1-548
Magnesium oxide	3 - <5	1309-48-4	1-465
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6	Not available.
Diiron trioxide	2 - <3	1309-37-1	1-357; 5-5188
1,2,4-Trimethylbenzene	1 - <2	95-63-6	3-3427; 3-7
oxirane, mono[(C12-14-alkyloxy)methyl] derivs	1 - <2	68609-97-2	2-2426
Titanium dioxide (excluding nanoparticle)	1 - <2	13463-67-7	1-558; 5-5225
Butyl acetate	1 - <2	123-86-4	2-731
benzyl alcohol	0.5 - <1	100-51-6	3-1011
Isophoronediamine	0.5 - <1	2855-13-2	3-2286
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-	0.2 - < 0.5	123-26-2	2-2720
1-amide)			
carbon black	0.2 - < 0.5	1333-86-4	5-3328; 5-5222
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	0.2 - < 0.5	25513-64-8	2-154; 2-3719
Xylene	0.1 - < 0.2	1330-20-7	3-3; 3-60
Silica (silicon dioxide containing crystalline and	0.1 - < 0.2	7631-86-9	1-548
amorphous)			
Methanol	0.1 - < 0.2	67-56-1	2-201
Nickel	<0.1	7440-02-0	Not available.

Japan Page: 2/19

Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 3. Composition/information on ingredients

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

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

SUB codes represent substances without registered CAS Numbers.

### 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact : Causes serious eye irritation.Inhalation : May cause respiratory irritation.

**Skin contact**: May cause damage to organs following a single exposure in contact with skin.

Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : May cause damage to organs following a single exposure if swallowed.

#### **Over-exposure signs/symptoms**

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

pain or irritation watering redness

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

respiratory tract irritation

coughing

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

irritation redness dryness cracking

**Ingestion**: No specific data.

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

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)

Japan Page: 3/19

Version 20 Product code 00333924 Date of issue 24 June 2025

Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

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

**Unsuitable extinguishing** media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon oxides nitrogen oxides

halogenated compounds metal oxide/oxides

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

**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.

> Japan Page: 4/19

Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

### 6. Accidental release measures

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.

# 7. Handling and storage

**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 nonsparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage: Do not store above the following temperature: 50°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.

Page: 5/19

Japan

# 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
atuminium oxide	Japan Society for Occupational Health (Japan, 5/2023) [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)]  OEL-M 8 hours: 2 mg/m³. Form: Total dust (Class 1 Dust).  OEL-M 8 hours: 0.5 mg/m³. Form: Respirable dust (Class 1 Dust).
diiron trioxide	Japan Society for Occupational Health (Japan, 5/2023) [Class 2 dusts (Bakelite (asbestos-free, technical grade), Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Joss stick material dust, Marble, Portland cement, Zinc

# 8. Exposure controls/personal protection

oxide)1 OEL-M 8 hours: 1 mg/m<sup>3</sup>. Form: Respirable dust (Class 2 Dust). OEL-M 8 hours: 4 mg/m³. Form: Total dust (Class 2 Dust). Japan Society for Occupational Health 1,2,4-trimethylbenzene (Japan, 5/2023) OEL-M 8 hours: 25 ppm. OEL-M 8 hours: 120 mg/m<sup>3</sup>. titanium dioxide **Japan Society for Occupational Health** (Japan, 5/2023) [titanium dioxide] OEL-M 8 hours: 1.5 mg/m³ (as Ti). Form: Respirable particulate matter. OEL-M 8 hours: 2 mg/m³ (as Ti). Form: Total particulate matter. **Japan Society for Occupational Health** (Japan, 5/2023) [titanium dioxide (nanoparticle)] OEL-M 8 hours: 0.3 mg/m<sup>3</sup>. Form: nanoparticle. n-butyl acetate **Japan Society for Occupational Health** (Japan, 5/2023) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m<sup>3</sup>. Industrial Safety and Health Act (Japan, 6/2020)TWA 8 hours: 150 ppm. benzyl alcohol **Japan Society for Occupational Health** (Japan, 5/2023) Skin sensitizer. OEL-C: 25 mg/m<sup>3</sup>. **Technical Guideline Concerning the** carbon black Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 6/2024) TWA 8 hours: 0.3 mg/m³. Form: as respirable aerosol fraction. Japan Society for Occupational Health xylene (Japan, 5/2023) OEL-M 8 hours: 50 ppm. OEL-M 8 hours: 217 mg/m<sup>3</sup>. Industrial Safety and Health Act (Japan, 6/2020) [xylene] TWA 8 hours: 50 ppm. **Japan Society for Occupational Health** methanol (Japan, 5/2023) Absorbed through skin. OEL-M 8 hours: 200 ppm. OEL-M 8 hours: 260 mg/m<sup>3</sup>. Industrial Safety and Health Act (Japan, 6/2020)TWA 8 hours: 200 ppm. Nickel **Japan Society for Occupational Health** (Japan, 5/2023) Inhalation sensitizer, Skin sensitizer. OEL-M 8 hours: 1 mg/m<sup>3</sup>. **Technical Guideline Concerning the** Applications, etc. of Concentration

Japan Page: 6/19

Standard for Preventing Health Hazards

(Japan, 6/2024)

Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 8. Exposure controls/personal protection

TWA 8 hours: 1 mg/m<sup>3</sup>.

# procedures

Recommended monitoring: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye protection Skin protection**

: Chemical splash goggles.

### **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Gloves**

: butyl rubber

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

: 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.

> Japan Page: 7/19

Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Gray.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 40°C (104°F)
Evaporation rate : 0.41 (butyl acetate = 1)
Vapor pressure : 1.7 kPa (12.5 mm Hg)

Relative density : 1.95

Solubility(ies) : Media Result

cold water Not soluble

# 10. Stability and reactivity

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

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

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

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

products.

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

oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** 

products

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

oxides

# 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Muminium oxide	LC50 Inhalation Dusts and mists	Rat	7.6 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
Amorphous silica (silica gel, precipitated silica)	LD50 Dermal	Rabbit	>5000 mg/kg	-
,	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours

Japan Page: 8/19

Product code 00333924 Date of issue 24 June 2025 Version 20
Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 11. Toxicological information

			•	
	LD50 Oral	Rat	5 g/kg	-
oxirane, mono[	LD50 Dermal	Rabbit	>4000 mg/kg	-
(C12-14-alkyloxy)methyl]				
derivs				
	LD50 Oral	Rat	17100 mg/kg	-
Titanium dioxide (excluding	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
nanoparticle)				
, ,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
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	-
benzyl alcohol	LC50 Inhalation Dusts and mists		>5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Isophoronediamine	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
<b>'</b>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-				
1-amide)				
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
2,2,4(or 2,4,4)-	LD50 Oral	Rat	910 mg/kg	-
trimethylhexane-1,6-diamine				
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
*	LD50 Oral	Rat	4.3 g/kg	-
Silica (silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	-
containing crystalline and				
amorphous)				
, ,	LD50 Oral	Rat - Male,	>5000 mg/kg	_
		Female		
Methanol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	_
	LD50 Oral	Rat	5600 mg/kg	-

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
øís-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine	Skin - Primary dermal irritation index (PDII)	Rabbit	8	-	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

### **Sensitization**

Japan Page: 9/19

Product code 00333924 Date of issue 24 June 2025 Version 20
Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
s-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing
Isophoronediamine 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	skin skin	Guinea pig Guinea pig	Sensitizing Sensitizing

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Muminium oxide	Category 3	-	Respiratory tract
Amorphous silica (silica gel, precipitated silica)	Category 3	-	irritation Respiratory tract irritation
Magnesium oxide	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
Diiron trioxide	Category 1	-	respiratory organs
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
Butyl acetate	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
benzyl alcohol	Category 1	-	central nervous system (CNS), kidneys
-	Category 3	-	Narcotic effects
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
-	Category 3	-	Narcotic effects
Silica (silicon dioxide containing crystalline and amorphous)	Category 3	-	Respiratory tract irritation
Methanol	Category 1	-	central nervous system (CNS), systemic toxicity, visual organ
-	Category 3	-	Narcotic effects
Nickel	Category 1	-	kidneys, respiratory organs

Specific target organ toxicity (repeated exposure)

Japan Page: 10/19

#### Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 11. Toxicological information

Name	Category	Route of exposure	Target organs
Muminium oxide	Category 1	-	lungs
Diiron trioxide	Category 1	-	respiratory organs
1,2,4-Trimethylbenzene	Category 1	-	central nervous system (CNS), respiratory organs
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
benzyl alcohol	Category 1	-	central nervous system (CNS)
Isophoronediamine	Category 2	-	respiratory system
carbon black	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
Silica (silicon dioxide containing crystalline and amorphous)	Category 1	-	immune system, kidneys, respiratory organs
Methanol	Category 1	-	central nervous system (CNS), visual organ
Nickel	Category 1	-	respiratory organs

### **Aspiration hazard**

Name	Result
Solvent naphtha (petroleum), light aromatic 1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

### Potential acute health effects

Eye contactInhalationCauses serious eye irritation.May cause respiratory irritation.

**Skin contact**: May cause damage to organs following a single exposure in contact with skin.

Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : May cause damage to organs following a single exposure if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

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

pain or irritation watering

redness

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

respiratory tract irritation

coughing

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

irritation redness dryness cracking

**Ingestion**: No specific data.

# <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

Japan Page: 11/19

Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 11. Toxicological information

**Potential immediate** 

effects

: Not available.

**Potential delayed effects** 

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

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

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

to very low levels.

**Carcinogenicity**: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
MERCOAT 138G DK GRAY TYPE I/II/IV KIT	N/A	36079.5	N/A	907.9	N/A
Aluminium oxide	N/A	N/A	N/A	N/A	7.6
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
Diiron trioxide	10000	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	5000	N/A	N/A	18	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs	17100	2500	N/A	N/A	N/A
Butyl acetate	10768	N/A	N/A	N/A	N/A
benzyl alcohol	1200	1100	N/A	N/A	N/A
Isophoronediamine	1030	2500	N/A	N/A	N/A
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	2500	2500	N/A	N/A	N/A
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	910	N/A	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Methanol	500	15800	64000	N/A	N/A

### Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

# 12. Ecological information

### **Toxicity**

Japan Page: 12/19

### Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Muminium oxide	Acute LC50 >100 mg/l	Fish	96 hours
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Amorphous silica (silica gel, precipitated silica)	NOEC >1000 ppm	Daphnia - Daphnia magna	24 hours
	Acute NOEC >10000 ppm Fresh water	Fish	96 hours Static
	Acute NOEC >10000 ppm	Fish - <i>Brachydanio rerio</i>	4 days Static
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs	EC50 844 mg/l	Algae	72 hours
	EC50 7.2 mg/l	Daphnia	48 hours
	LC50 >1.8 mg/l	Fish	96 hours
Titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
,	Acute EC50 94 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine	NOEC 16 mg/l	Algae - pseudokirchneriella subcapitata	72 hours
·	Acute EC50 29.5 mg/l	Algae - Scenedesmus subspicatus	72 hours
Silica (silicon dioxide containing crystalline and amorphous)	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
. ,	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
Methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours
Nickel	Chronic EC10 6.9 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
øxirane, mono[ (C12-14-alkyloxy)methyl] derivs	OECD Ready Biodegradability - Manometric Respirometry	87 % - Readily - 28 days	-	-
Butyl acetate	Test TEPA and OECD 301D	83 % - Readily - 28 days	-	-
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63 % - 28 days	-	-

Japan Page: 13/19

#### Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ofs-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
Amorphous silica (silica gel, precipitated silica)	-	-	Not readily
oxirane, mono[ (C12-14-alkyloxy)methyl]	-	-	Readily
derivs			
Butyl acetate	-	-	Readily
benzyl alcohol	-	-	Readily
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-	-	-	Readily
1-amide)   2,2,4(or 2,4,4)-	-	-	Not readily
trimethylhexane-1,6-diamine Xylene	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Amorphous silica (silica gel, precipitated silica)	-	0	Low
1,2,4-Trimethylbenzene	3.63	120.23	Low
oxirane, mono[	3.77	160 to 263	Low
(C12-14-alkyloxy)methyl]			
derivs			
Butyl acetate	2.3	-	Low
benzyl alcohol	0.87	-	Low
Isophoronediamine	0.99	-	Low
N,N'-ethane-1,2-diylbis	>6	-	High
(12-hydroxyoctadecan-			
1-amide)			
2,2,4(or 2,4,4)-	-0.3	-	Low
trimethylhexane-1,6-diamine			
Xylene	3.12	7.4 to 18.5	Low
Methanol	-0.77	-	Low

#### **Mobility in soil**

Soil/Water partition

coefficient

: Not available.

Mobility : Not available.

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

# 13. Disposal considerations

### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling

Japan Page: 14/19

# 13. Disposal considerations

emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

	UN	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class(es)	3	3	3	
Packing group	III	III	III	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	

#### **Additional information**

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

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not applicable.

to IMO instruments

# 15. Regulatory information

#### **Fire Service Law**

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

#### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Trimethylbenzene	2.6	Class 1	691

### **Industrial Safety and Health Act**

### Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

Japan Page: 15/19

Product code 00333924	Date of issue 24 June 2025	Version 20
Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT		

# 15. Regulatory information

## Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
2-Bis[4-(oxiran-2-ylmethoxy)phenyl]propane(2025-04)	≤10	Listed	2-1579 (2025-04)
Amorphous silica (It is limited that silica gel and precipitated silica.)(2026-04)	≤10	Listed	2-1568 (2026-04)
Magnesium oxide(2026-04)	≤10	Listed	2-628 (2026-04)
Petroleum naphtha	≤10	Listed	330, 2-1142
Trimethylbenzene	≤10	Listed	(2025-04) 404, 2-1426 (2025-04)
Iron oxide	≤10	Listed	192, 2-624 (2025-04)
2-[(Alkyloxy)methyl]oxirane (limited to those the alkyl group is C12-14 and mixture thereof)(2025-04)	≤10	Listed	2-128 (2025-04)
Titanium(IV) oxide	≤10	Listed	191, 2-623 (2025-04)
Butyl acetate, (Butyl acetate (Includes isomers of alkyl groups.)(2025-04))	≤10	Listed	181, 2-603 (2025-04)
Crystalline silica Silica, crystalline(2025-04)	≤10 ≤10	Listed Listed	165-2 2-578 (2025-04)

## **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
2-Bis[4-(oxiran-2-ylmethoxy)phenyl]propane(2025-04)	≤10	Listed	2-1579 (2025-04)
Amorphous silica (It is limited that silica gel and precipitated silica.)(2026-04)	≤10	Listed	2-1568 (2026-04)
Magnesium oxide(2026-04)	≤10	Listed	2-628 (2026-04)
Petroleum naphtha	≤10	Listed	330, 2-1142
Trimethylbenzene	≤10	Listed	(2025-04) 404, 2-1426 (2025-04)
Iron oxide	≤10	Listed	192, 2-624 (2025-04)
2-[(Alkyloxy)methyl]oxirane (limited to those the alkyl group is C12-14 and mixture thereof)(2025-04)	≤10	Listed	2-128 (2025-04)
Titanium(IV) oxide	≤10	Listed	191, 2-623 (2025-04)
Butyl acetate, (Butyl acetate (Includes isomers of alkyl groups.)(2025-04))	≤10	Listed	181, 2-603 (2025-04)
3-Aminomethyl-3,5,5-trimethylcyclohexylamine(2025-04)	≤10	Listed	2-105 (2025-04)
Carbon black	≤10	Listed	130, 2-403 (2025-04)
Crystalline silica	≤10	Listed	165-2 ´
Silica, crystalline(2025-04)	≤10	Listed	2-578 (2025-04)
Xylene	≤10	Listed	136, 2-426

Japan Page: 16/19

Product code 00333924 Date of issue 24 June 2025 Version 20
Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 15. Regulatory information

(2025-	Methanol		≤10		(2025-04) 560, 2-2006 (2025-04)
--------	----------	--	-----	--	--

### Carcinogens based on Article 577-2 of the Ordinance on ISH

Ingredient name	%	Status	Reference number
silicon dioxide	≤10	Listed	-

#### **Mutagen**

None of the components are listed.

Corrosive liquid : Not listed

**Occupational Safety and** 

**Health Law** 

: Inflammable, Combustible

Regulations on the

**Prevention of Tetraalkyl** 

**Lead Poisoning** 

: Not listed

: Not listed

Harmful Substances

Subject to Obtaining Permission for

Manufacturing

Harmful Substances, : Not listed

Prohibited for Manufacturing

**ISHL Enforcement Order** 

**Appendix 1 - Dangerous** 

**Substances** 

: Inflammable, Combustible

Lead regulation : Not listed Organic solvents : ☑ass 3

poisoning prevention

### **Poisonous and Deleterious Substances**

None of the components are listed.

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

Ingredient name	%	Status	Reference number
Polycondensate of 4,4'-isopropylidenediphenol and	≤10	Priority assessment	87
1-chloro-2,3-epoxypropane (liquid only)			
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Xylene	≤10	Priority assessment	125
Phenol	≤10	Priority assessment	62
Cumene	≤10	Priority assessment	126
Ethylbenzene	≤10	Priority assessment	50
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
Naphthalene	≤10	Priority assessment	76
1-Butanol	≤10	Priority assessment	124
2,6-Di-tert-butyl-4-methylphenol	≤10	Priority assessment	64
alpha-Alkyl(C9-11)-omega-hydroxypoly(oxyethylene) (It is limited that a number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	188

Japan Page: 17/19

#### Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT

# 15. Regulatory information

Epichlorohydrin 22 ≤10 Priority assessment

**High Pressure Gas Control** : Not available.

Law

### **Explosives Control Law**

None of the components are listed.

Law concerning prevention : Not available.

of pollution of the ocean

### **Maritime Safety Law**

### Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

**JSOH Carcinogen List of Specially Controlled** 

**Industrial Waste** 

: Group 2B : Not listed

Japan inventory : At least one component is not listed.

**Road law** : Not available.

### 16. Other information

#### **History**

Date of issue/Date of : 24 June 2025

revision

Date of previous issue : 6/12/2024

**Version** : 20 Prepared by : FHS

Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

UN = United Nations

▼ Indicates information that has changed from previously issued version.

**Notice to reader** 

Japan Page: 18/19

**Product name AMERCOAT 138G DK GRAY TYPE I/II/IV KIT** 

### 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.

Japan Page: 19/19