

SAFETY DATA SHEET



AMERCOAT 138G DK GRAY TYPE I/III/IV KIT

Date of issue 7 May 2020

Version 14

1. Product and company identification

Product name : AMERCOAT 138G DK GRAY TYPE I/III/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
Tel : +81 78 574 2777
Fax : +81 78 576 0035

**Emergency telephone
number** : 078 574 2777

2. Hazards identification


GHS Classification :  FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - 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.
Causes damage to organs through prolonged or repeated exposure. (lungs, respiratory system)
Harmful to aquatic life with long lasting effects.

2. Hazards identification

Precautionary statements

- Prevention** : Obtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- Response** : Call a POISON CENTER or doctor if you feel unwell. IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- Storage** : Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

- CAS number** : Not applicable.
- ENCS number** : Not available.

Ingredient name	%	CAS number	ENCS
Aluminium oxide	25 - <50	1344-28-1	1-23
Amorphous silica (silica gel, precipitated silica)	5 - <7	112926-00-8	1-548
Epoxy resin (MW ≤ 700)	5 - <7	25068-38-6	(7)-1279
Magnesium oxide	3 - <5	1309-48-4	1-465
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6	Not available.
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	2 - <3	68609-97-2	Not available.
Diiron trioxide	2 - <3	1309-37-1	1-357; 5-5188
1,2,4-Trimethylbenzene	2 - <3	95-63-6	3-3427; 3-7
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1 - <2	1675-54-3	4-209; 7-1279; 7-1283
titanium dioxide (nanoparticle)	1 - <2	13463-67-7	1-558; 5-5225
Butyl acetate	1 - <2	123-86-4	2-731
benzyl alcohol	1 - <2	100-51-6	3-1011
Silica gel	1 - <2	63231-67-4	1-548
amine epoxy adduct	0.2 - <0.5	SUB104644	Not available.
3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.2 - <0.5	2855-13-2	3-2286
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	0.2 - <0.5	123-26-2	2-2720
trimethylhexane-1,6-diamine	0.2 - <0.5	25620-58-0	Not available.
carbon black animal or vegetable origin	0.1 - <0.2	1333-86-4	5-3328; 5-5222
Xylene	0.1 - <0.2	1330-20-7	3-3; 3-60
Silica silicon dioxide containing crystalline and amorphous	0.1 - <0.2	7631-86-9	1-548
Methanol	0.1 - <0.2	67-56-1	2-201

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** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

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)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, 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.

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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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.

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.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Aluminium oxide	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 0.5 mg/m ³ 8 hours. Form: Respirable dust
Diiron trioxide	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 2 mg/m ³ 8 hours. Form: Total dust
1,2,4-Trimethylbenzene	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 1 mg/m ³ 8 hours. Form: Respirable dust
	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 4 mg/m ³ 8 hours. Form: Total dust

8. Exposure controls/personal protection

titanium dioxide (nanoparticle)	<p>OEL-M: 120 mg/m³ 8 hours. OEL-M: 25 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 1 mg/m³ 8 hours. Form: Respirable dust OEL-M: 4 mg/m³ 8 hours. Form: Total dust OEL-M: 0.3 mg/m³, (as Ti) 8 hours. Form: nanoparticle Japan Society for Occupational Health (Japan, 5/2018).</p>
Butyl acetate	<p>OEL-M: 475 mg/m³ 8 hours. OEL-M: 100 ppm 8 hours. ISHL (Japan, 10/2019). TWA: 150 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 1 mg/m³ 8 hours. Form: Respirable dust OEL-M: 4 mg/m³ 8 hours. Form: Total dust ISHL (Japan, 10/2019). TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2018).</p>
carbon black animal or vegetable origin	<p>OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m³ 8 hours. Japan Society for Occupational Health (Japan, 5/2018). Absorbed through skin. OEL-M: 260 mg/m³ 8 hours. OEL-M: 200 ppm 8 hours. ISHL (Japan, 10/2019). TWA: 200 ppm 8 hours.</p>
Xylene	
Methanol	

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.

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 : Chemical splash goggles.

8. Exposure controls/personal protection

Skin protection

Hand protection

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

Gloves

: butyl 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.

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) [room temperature]

Relative density

: 1.95

Solubility

: Insoluble in the following materials: cold water.

Viscosity

: Not Applicable

10. Stability and reactivity

Reactivity

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

Chemical stability

: The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition products.

10. Stability and reactivity

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Amorphous silica (silica gel, precipitated silica)	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 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 ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
bis-[4-(2,3-epoxipropoxy)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
titanium dioxide (nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	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	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
Silica gel	LD50 Oral	Rat	31.6 g/kg	-
amine epoxy adduct	LD50 Dermal	Rabbit	0.85 g/kg	-
	LD50 Oral	Rat	0.384 g/kg	-
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
carbon black animal or vegetable origin	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-
Xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Silica silicon dioxide containing crystalline and amorphous	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-

11. Toxicological information

Methanol	LC50 Inhalation Gas.	Female		
	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rat	64000 ppm	4 hours
	LD50 Oral	Rabbit	15800 mg/kg	-
		Rat	5600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Epoxy resin (MW ≤ 700) bis-[4-(2,3-epoxipropoxy) phenyl]propane	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
Xylene	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Epoxy resin (MW ≤ 700) oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Mouse	Sensitizing
	skin	Guinea pig	Sensitizing
bis-[4-(2,3-epoxipropoxy) phenyl]propane	skin	Mouse	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
Aluminium oxide	Category 3	-	Respiratory tract irritation
Amorphous silica (silica gel, precipitated silica)	Category 3	-	Respiratory tract irritation
Magnesium oxide	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
Diiron trioxide	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation

11. Toxicological information

Butyl acetate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Xylene	Category 3 Category 1	-	Narcotic effects central nervous system (CNS), kidneys, liver, respiratory system
Silica silicon dioxide containing crystalline and amorphous	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Methanol	Category 1	-	central nervous system (CNS), eyes, systemic toxicity
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Aluminium oxide	Category 1	inhalation	lungs
Diiron trioxide	Category 1	-	respiratory system
1,2,4-Trimethylbenzene	Category 2	-	central nervous system (CNS), lungs
titanium dioxide (nanoparticle)	Category 1	-	respiratory system
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Category 2	-	respiratory system
carbon black animal or vegetable origin	Category 1	-	respiratory system
Xylene	Category 1	-	nervous system, respiratory system
Silica silicon dioxide containing crystalline and amorphous	Category 1	-	immune system, kidneys, respiratory system
Methanol	Category 1	-	central nervous system (CNS), eyes

Aspiration hazard

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

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

11. Toxicological information

- 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.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health 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.
- 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.

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)
AMERCOAT 138G DK GRAY TYPE I/III/IV KIT	27038.4	13442.1	N/A	165.5	105.8
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	N/A	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
bis-[4-(2,3-epoxipropoxy)phenyl]propane	15000	23000	N/A	N/A	N/A
Butyl acetate	10768	N/A	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	3	1.5
Silica gel	31600	N/A	N/A	N/A	N/A
amine epoxy adduct	384	850	N/A	N/A	N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine	500	N/A	N/A	N/A	N/A
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	2500	2500	N/A	N/A	N/A
trimethylhexane-1,6-diamine	500	N/A	N/A	N/A	N/A
carbon black animal or vegetable origin	N/A	2500	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
Methanol	500	15800	64000	N/A	N/A

11. Toxicological information

Other information

:

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

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
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 - Brachydanio rerio	4 days Static
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Solvent naphtha (petroleum), light aromatic oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Acute LC50 8.2 mg/l	Fish	96 hours
	LC50 >100 mg/l	Fish	96 hours
Diiron trioxide bis-[4-(2,3-epoxypropoxy)phenyl]propane	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
titanium dioxide (nanoparticle)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	Acute EC50 94 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10000 mg/l	Fish	96 hours
Silica silicon dioxide containing crystalline and amorphous			
Methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	-	-
	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
Butyl acetate				
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	-	63 % - 28 days	-	-

12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Amorphous silica (silica gel, precipitated silica)	-	-	Not readily
Epoxy resin (MW ≤ 700)	-	-	Not readily
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	-	Not readily
Butyl acetate	-	-	Readily
benzyl alcohol	-	-	Readily
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	-	-	Readily
Xylene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Amorphous silica (silica gel, precipitated silica)	-	0	low
Epoxy resin (MW ≤ 700)	3	31	low
1,2,4-Trimethylbenzene	3.63	120.23	low
Butyl acetate	1.78	-	low
benzyl alcohol	1.1	-	low
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	>6	-	high
Xylene	3.16	7.4 to 18.5	low
Methanol	-0.77	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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 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.

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
<input checked="" type="checkbox"/> Category IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
<input checked="" type="checkbox"/> 1,2,4-Trimethylbenzene	2.0095	Class 1	296

ISHL

Use of specified chemical substances

None of the components are listed.

Substances requiring labelling

Ingredient name	%	Status	Reference number
<input checked="" type="checkbox"/> Aluminium oxide	≥25 - ≤50	Listed	189
Petroleum naphtha	≤5.0	Listed	330
Trimethylbenzene	≤3.0	Listed	404
Iron oxide; Diiron(III) trioxide	<3.0	Listed	192
Titanium(IV) oxide	≤3.0	Listed	191
Butyl acetate	≤3.0	Listed	181
Crystalline silica	≤0.30	Listed	165-2

15. Regulatory information

Chemicals requiring notification

Ingredient name	%	Status	Reference number
<input checked="" type="checkbox"/> Aluminium oxide	≥25 - ≤50	Listed	189
Petroleum naphtha	≤5.0	Listed	330
Trimethylbenzene	≤3.0	Listed	404
Xylene	<0.30	Listed	136
Iron oxide; Diiron(III) trioxide	<3.0	Listed	192
Titanium(IV) oxide	≤3.0	Listed	191
Butyl acetate	≤3.0	Listed	181
Carbon black	≤0.30	Listed	130
Crystalline silica	≤0.30	Listed	165-2
Methanol	<0.30	Listed	560

Carcinogen

None of the components are listed.

Mutagen

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Flammable liquid Class 4
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
Dangerous Substances	: Not listed
Lead regulation	: Not listed
Organic solvents poisoning prevention	: <input checked="" type="checkbox"/> Not applicable.

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
<input checked="" type="checkbox"/> 2,4-Trimethylbenzene	2.0095	Priority assessment	49
1,3,5-Trimethylbenzene	0.26435	Priority assessment	201
Xylene	0.14528	Priority assessment	125
Polycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	1.543	Priority assessment	87
Methanol	0.12126	Priority assessment	90

High Pressure Gas Control Law : Not available.

Explosives Control Law

15. Regulatory information

None of the components are listed.

Law Concerning Prevention of Pollution of the Ocean and Maritime Disaster : Not available.

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

JSOH Carcinogen : Group 2B

List of Specially Controlled Industrial Waste : Not listed

Japan inventory : At least one component is not listed.

Road law : Not available.

16. Other information

History

Date of issue/Date of revision : 7 May 2020

Date of previous issue : 4/3/2019

Version : 14

Prepared by : EHS

Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

📌 Indicates information that has changed from previously issued version.

Notice to reader

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