SAFETY DATA SHEET



Date of issue 8/13/2024 (month/day/year)

Version 11.01

Section 1. Chemical product and company identification

Α.	Product name	1	AMERCOAT 68HS BASE
	Product code	1	00284640

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

	Product use Use of the substance/ mixture		Professional applications, Used by spraying. Coating.
	Uses advised against	:	Product is not intended, labelled or packaged for consumer use.
C.	Supplier's or Importer's information Email Address	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8331

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPEČIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is clossified in a	apportance with the Industrial Sefery and Health Act and the Chemical Central Act

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



Signal word

Symbol

: Danger

Date of issue 8/13/2024 (month/day/year)

Product name AMERCOAT 68HS BASE

Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H336 - May cause drowsiness or dizziness. H350 - May cause cancer. H373 - May cause damage to organs through prolonged or repeated exposure.
	(central nervous system (CNS), kidneys, liver) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statement	s
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling.
Response	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
. Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

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: Not applicable.
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Chemical name	Common name	Identifiers	%
¢rystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	20 - <30
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	EPOXY RESIN	CAS: 25068-38-6	10 -<20
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</td><td>CAS: 25036-25-3</td><td>10 -<20</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	10 -<20
heptan-2-one	HEPTAN-2-ONE	CAS: 110-43-0	10 -<20
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL	CAS: 108-10-1	10 -<20
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Product name AMERCOAT 68HS BASE

Section 3. Composition/information on ingredients

	ISOBUTYL KETONE		
diiron trioxide	Diiron trioxide	CAS: 1309-37-1	5 - <10
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	1 - <5
Cashew, nutshell liq., oligomeric reaction products with 1-chloro- 2,3-epoxypropane	cashew, nutshell liq., polymer with epichlorohydrin	CAS: 68413-24-1	1 - <5
tetraethyl silicate	Tetraethyl Silicate	CAS: 78-10-4	1 - <5
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	CAS: 2530-83-8	1 - <5
ethylbenzene	ETHYLBÉNZENE	CAS: 100-41-4	0.1 - <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.

Section 4. First aid measures

Α.	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.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	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 taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

	•		-
Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	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 halogenated compounds metal oxide/oxides
С.	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.
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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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

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 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

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Section 6. Accidental release measures

emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Α.	Precautions for safe : handling	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
в.	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
rystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 0.05 mg/m ³ 8 hours. Form:
	Respirable fraction
heptan-2-one	Ministry of Employment and Labor
•	(Republic of Korea, 1/2020).
	TWA: 50 ppm 8 hours.
4-methylpentan-2-one	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 75 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
diiron trioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Iron oxide]
	TWA: 5 mg/m³, (as Fe) 8 hours. Form:
	Fume
	TWA: 5 mg/m³, (as Fe) 8 hours.
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
tetraethyl silicate	Ministry of Employment and Labor
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Section 8. Exposure controls/personal protection

	1,2,4-trimethylbenzene ethylbenzene			(Republic of Korea, 1/2020). TWA: 10 ppm 8 hours. Ministry of Employment and La (Republic of Korea, 1/2020). [Tr benzene] TWA: 25 ppm 8 hours. Ministry of Employment and La (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.	imethyl	
	Recommended monitoring procedures	:	Reference should be made to appropria national guidance documents for metho substances will also be required.			
в.	Appropriate engineering controls					
	Environmental exposure controls	:	Emissions from ventilation or work proof they comply with the requirements of en- cases, fume scrubbers, filters or engine equipment will be necessary to reduce	nvironmental protection legislation eering modifications to the process	. In some	
С.	Personal protective equip	me	ent			
υ.	Respiratory protection		Respirator selection must be based on hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use respirator complying with an approved necessary.	orking limits of the selected respira s above the exposure limit, they m a properly fitted, air-purifying or ai	ator. If ust use r-fed	
	Eye protection		Chemical splash goggles.			
	Hand protection	:	Chemical-resistant, impervious gloves be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are si should be noted that the time to break different for different glove manufactur several substances, the protection time estimated.	emical products if a risk assessme ameters specified by the glove ma till retaining their protective proper through for any glove material may ers. In the case of mixtures, cons	nt indicates inufacturer, ties. It / be isting of	
	Gloves	1	butyl rubber			
	Body protection	:	Personal protective equipment for the being performed and the risks involved before handling this product. When th wear anti-static protective clothing. Fo discharges, clothing should include an	d and should be approved by a spe ere is a risk of ignition from static or the greatest protection from stati	ecialist electricity, ic	
	Hygiene measures	:	Wash hands, forearms and face thorou eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should no contaminated clothing before reusing. showers are close to the workstation lo	y and at the end of the working per d to remove potentially contaminat t be allowed out of the workplace. Ensure that eyewash stations and	iod. ed clothing. Wash	
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Section 9. Physical and chemical properties

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

Α.	Appearance		
	Physical state	:	Liquid.
	Color	:	Gray.
В.	Odor	:	Aromatic.
С.	Odor threshold	:	Not available.
D.	рН	:	Not applicable.
Ε.	Melting/freezing point	:	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	:	Closed cup: 32°C (89.6°F)
н.	Evaporation rate	:	Not available.
Т.	Flammability (solid, gas)	:	Not available.
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.3%

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Ingredient name

4-methylpentan-2-one

Media

cold water

K. Vapor pressure

So	lub	ility	in	water

- Vapor density M.
- N. Relative density
- O. Partition coefficient: n-
- O. octanol/water Auto-ignition
- P. temperature

	Not available.			
	Not available.			
	1.22			
:	Not applicable.			
		-		
	Ingredient name	°C	°F	Method

536 to 878

280 to 470

Vapor Pressure at 20°C

Method

kPa

2.1

Result

Not soluble

mm Hg

15.75128

Upper: 23% (tetraethyl silicate)

mm Hg

~	Decomposition
Q.	temperature

Viscosity

R.

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

Solvent naphtha (petroleum), light

- Flow time (ISO 2431)
- S. Molecular weight
- : Not available.

aromatic : Not available.

: Not applicable.

Vapor pressure at 50°C

Method

kPa

Section 10. Stability and reactivity

A. Chemical s	tability	1	The product is stable.
Possibility reactions	of hazardous	:	Under normal conditions of storage and use, hazardous reactions will not occur.
B. Conditions	to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C. Incompatik	ole materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D. Hazardous decompos	ition products	:	Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Α.	Information on the like routes of exposure	ly : Not available.	
<u>P</u>	otential acute health eff	ects	
	Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
	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 irritation.	
<u>0</u>	<u>ver-exposure signs/syn</u>	tion : Adverse symptoms may include the following:	
	Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
	Ingestion	: No specific data.	
	Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking	
	Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
В.	Health hazards		
Ac	ute toxicity		

Product name AMERCOAT 68HS BASE

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-(1-methylethylidene)bisphenol	LD50 Dermal	Rabbit	>2 g/kg	-
polymer with (chloromethyl)oxirane			0 0	
	LD50 Oral	Rat	>2 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	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
•	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists			
	LD50 Oral	Rat	10 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), light	LD50 Dermal	Rabbit	3.48 g/kg	-
aromatic			0.10 9.1.9	
	LD50 Oral	Rat	8400 mg/kg	-
Cashew, nutshell liq., oligomeric	LD50 Dermal	Rabbit	>2 g/kg	-
reaction products with 1-chloro-			- 5,5	
2,3-epoxypropane				
	LD50 Oral	Rat	5 g/kg	_
tetraethyl silicate	LC50 Inhalation Dusts and	Rat	10 to 16 mg/l	4 hours
	mists	i tat	To to To High	4 Hours
	LD50 Dermal	Rabbit	5.878 g/kg	
	LD50 Oral	Rat	6270 mg/kg	
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	- 4 hours
	LD50 Oral	Rat	5 g/kg	-
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and	Rat	>5.3 mg/l	- 4 hours
trimethoxysilane	mists	i vai	- 0.0 mg/i	TIOUIS
unneuroxysiidhe	LD50 Oral	Rat	7.01 g/kg	
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	- 4 hours
euryidenzene	LD50 Dermal	Rabbit	17.8 g/kg	4 110015
		Rabbit		-
	LD50 Oral	Rat	3.5 g/kg	-

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

Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Mild irritant	Rabbit	-	100 mg	-
Eyes - Moderate irritant	Rabbit	-	-	-
Skin - Moderate irritant	Rabbit	-	-	-
Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
Skin - Severe irritant	Rabbit	-	24 hours 2	-
Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant Eyes - Moderate irritant Skin - Moderate irritant Skin - Moderate irritant Skin - Severe irritant	Eyes - Mild irritantRabbitEyes - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Severe irritantRabbit	Eyes - Mild irritantRabbitEyes - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Severe irritantRabbit	Eyes - Mild irritantRabbit-100 mgEyes - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Severe irritantRabbit-24 hours 500UlSkin - Severe irritantRabbit-Skin - Moderate irritantRabbit-24 hours 2Moderate irritantRabbit-24 hours 2Skin - Moderate irritantRabbit-24 hours 500

<u>Soliciusion/Summar</u>

Skin

: There are no data available on the mixture itself.

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Section 11. Toxicological information

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

: There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Route of exposure	Species	Result	
	skin	Mouse	Sensitizing	
	• • • • • • • • • • • • • • • • • • • •	a available on the mixture its a available on the mixture its		
<u>Mutagenicity</u> Conclusion/Summary	: There are no data	a available on the mixture its	self.	
Carcinogenicity Conclusion/Summary	: There are no dat	a available on the mixture it	self.	
<u>Reproductive toxicity</u> Conclusion/Summary	: There are no da	ta available on the mixture it	self.	
<u>Teratogenicity</u> Conclusion/Summary	: There are no da	ta available on the mixture it	self.	

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
heptan-2-one	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
tetraethyl silicate	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Xylene	Category 1		central nervous system (CNS), kidneys, liver

Aspiration hazard

Product name AMERCOAT 68HS BASE

Section 11. Toxicological information

Name	Result
heptan-2-one	ASPIRATION HAZARD - Category 2
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: May cause 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 Mutagenicity Reproductive toxicity	 May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.

Additional 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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
erystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	CAS: 25068-38-6	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
	0.4.0. 05000.05.0	AQUATIC HAZARD (LONG-TERM) - Category 2
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
heptan-2-one	CAS: 110-43-0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
4 methylaenten 2 ene	CAS: 108-10-1	ASPIRATION HAZARD - Category 2
4-methylpentan-2-one	CAS. 100-10-1	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
diiron trioxide	CAS: 1309-37-1	EXPOSURE) (Narcotic effects) - Category 3 Not classified.
Xylene	CAS: 1309-37-1 CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
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Section 11. Toxicological inf	formation
Product name AMERCOAT 68HS BASE	
Product code 00284640	Date of issue 8/13/2024 (month/day/year)

Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Cashew, nutshell liq., oligomeric reaction products with 1-chloro- 2,3-epoxypropane	CAS: 68413-24-1	SKIN SENSITIZATION - Category 1B
tetraethyl silicate	CAS: 78-10-4	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1,2,4-trimethylbenzene	CAS: 95-63-6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	CAS: 2530-83-8	SERIOUS EYE DAMAGE - Category 1
ethylbenzene	CAS: 100-41-4	AQUATIC HAZARD (LONG-TERM) - Category 3 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3

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Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Chronic NOEC 0.3 mg/l	Daphnia	21 days
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Acute EC50 255 mg/l Fresh water	Algae	72 hours
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
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ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	-

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	OECD 301F	5 % - 28 da	ays	-		-
heptan-2-one	OECD 310		adily - 28 days	-		-
4-methylpentan-2-one	OECD 301F		adily - 28 days	-		-
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	-	37 % - Not	readily - 28 days	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	-		-		Not rea	dily
heptan-2-one	-		-		Readily	
4-methylpentan-2-one	-		-		Readily	
Xylene	-		-		Readily	
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	-		-		Not rea	dily
ethylbenzene	-		-		Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
4'-(1-methylethylidene) 2.64 to 3.78		31	Low	
bisphenol polymer with				
(chloromethyl)oxirane				
heptan-2-one	2.26	-	Low	
4-methylpentan-2-one	1.9	-	Low	
Xylene	3.12	7.4 to 18.5	Low	
tetraethyl silicate	3.18	-	Low	
1,2,4-trimethylbenzene	3.63	120.23	Low	
ethylbenzene	3.6	79.43	Low	

D. <u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

E. <u>Other adverse effects</u> : 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	ΙΑΤΑ
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.

Transport in bulk according : Not applicable. to IMO instruments

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Section 15. Regulatory information

Α.	Regulation according to I	SH	<u>A</u>
	ISHA article 117 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	:	None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	It is not allowed to sell to persons under the age of 19.
	Exposure Limits of Chem	ica	I Substances and Physical Factors
	The following components rystalline silica, respirable heptan-2-one 4-methylpentan-2-one diiron trioxide Xylene tetraethyl silicate 1,2,4-trimethylbenzene ethylbenzene		
	Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: quartz, methyl n-amyl ketone, methyl isobutyl ketone, iron oxide, xylene, silicates
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Methyl n-amyl ketone, Methyl isobutyl ketone, Iron oxide (dust, fume), Xylene
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: methyl n-amyl ketone, methyl isobutyl ketone, iron and its compounds, xylene
В.	Regulation according to C	Ch	emicals Control Act
	Article 11 (TRI)		The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Xylene including o-,m-,p- isomer, Ethylbenzene
	Article 18 Prohibited (K- Reach Article 27)		None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.

Section 15. Regulatory information

	Article 20 Restricted (K- Reach Article 27)	1	None of the components are listed.	
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable	
	Korea inventory	1	All components are listed or exempted.	
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.	
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited	
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Ε.	Regulation according to other foreign laws			
	Safety, health and environmental	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).	

Section 16. Other information

regulations specific for

the product

Α.	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.
В.	First issue date	: 6/14/2018
C.	Date of issue/Date of revision	: 8/13/2024
D.	Version	: 11.01
	Prepared by	: EHS
-	0.0	

E. Other

✓ Indicates information that has changed from previously issued version.

Disclaimer

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