SAFETY DATA SHEET



Date of issue 2/16/2024 (month/day/year)

Version 3

Section 1. Chemical product and company identification

A. Product name : PPG AQUACOVER 45 (TINTED) BASE Z Product code : 000001186906

Other means of identification 00249402; 00253007; 00253009

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

Section 2. Hazards identification

A. Hazard classification

: FLAMMABLE LIQUIDS - Category 4 CARCINOGENICITY - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

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

: Warning

Symbol



Signal word Hazard statements

- : H227 Combustible liquid.
 - H351 Suspected of causing cancer.
 - H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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Section 2. Hazards identification

	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. P273 - Avoid release to the environment.
	Response	:	P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
	Storage	1	Not applicable.
	Disposal	:	P 501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C.	Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation. Contains isothiazolinones. May cause allergic reaction.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
Kaolin	ALUMINUM SILICATE	CAS: 1332-58-7	1 - <5
(2-methoxymethylethoxy)propanol	DIPROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 34590-94-8	1 - <5
1-(2-butoxy-1-methylethoxy)propan-2-ol	DIPROPYLENE GLYCOL MONOBUTYL ETHER	CAS: 29911-28-2	1 - <5
Nonylphenol, branched, ethoxylated	Poly(oxy-1,2-ethanediyl), a-(nonylphenyl) -w-hydroxy-, branched	CAS: 68412-54-4	0.1 - <1
tetraamminezinc(2+) carbonate	tetraamminezinc(2+) carbonate	CAS: 38714-47-5	0.1 - <1
nonylphenols	Poly(oxy-1,2-ethanediyl), α-sulfo-ω- (nonylphenoxy)-, branched, ammonium salt	CAS: 68649-55-8	0.1 - <1
ammonia	AMMONIUM HYDROXIDE	CAS: 1336-21-6	0.1 - <1
nonylphenols	sodium salt of polyoxyethylene nonylphenyl (branched) ether phosphates	CAS: 68954-84-7	<0.1
4,5-Dichloro-2-N-octyl-4-isothizaolin- 3-one	4,5-Dichloro-2-octyl-2H-isothiazol-3-one	CAS: 64359-81-5	<0.1
3-iodo-2-propynyl butylcarbamate	3-lodo-2-propynyl butylcarbamate	CAS: 55406-53-6	<0.1
zinc pyrithione	pyrithione zinc	CAS: 13463-41-7	<0.1

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

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

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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	1	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

-		
Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
Specific hazards arising from the chemical	:	Combustible liquid. 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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides metal oxide/oxides
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.
	Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Hazardous thermal decomposition products Special equipment for fire-fighting	Suitable extinguishing media:Unsuitable extinguishing media:Specific hazards arising from the chemical:Hazardous thermal decomposition products:Special equipment for fire-fighting:

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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. Collect spillage.
C. Methods and materials for	С	ontainment 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 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). 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 ingest. Avoid breathing vapor or mist. 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. 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: 5 to 35°C (41 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.

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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
Manium dioxide Kaolin	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction
(2-methoxymethylethoxy)	
ammonia	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Ammonia] STEL: 35 ppm 15 minutes. TWA: 25 ppm 8 hours.
Recommended monitoring procedures	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	Jse only with adequate ventilation. Use process enclosures, local exhaust rentilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering contro ilso need to keep gas, vapor or dust concentrations below any lower explosive mits. Use explosion-proof ventilation equipment.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensur- hey 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.
Personal protective equi	nt
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 necessary.
Eye protection	Safety glasses with side shields.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard shou be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture 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.

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Section 8. Exposure controls/personal protection

Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: Viton®, butyl rubber, nitrile 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.
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

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

Α.	Appearance								
	Physical state	:	Liquid.						
	Color	:	Various						
В.	Odor	:	Amine-like.						
С.	Odor threshold	:	Not available.						
D.	рН	:	8						
Ε.	Melting/freezing point	:	Not available.						
F.	Boiling point/boiling range	:	>37.78°C (>100°F)						
G.	Flash point	1	Closed cup: 81°C (17	'7.8°F)					
Н.	Evaporation rate	:	Not available.						
Т.	Flammability (solid, gas)	:	Not available.						
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang propan-2-ol)	e: Lower:	0.6% Uj	oper: 20.4%	(1-(2-buto	oxy-1-met	hylethoxy)
К.	Vapor pressure	:		Vapo	r Pressu	re at 20°C	Vap	or pressu	ure at 50°C
К.	Vapor pressure	:	Ingredient name	Vapo mm Hg	r Pressu kPa	re at 20°C Method	Vap mm Hg	or pressu kPa	ure at 50°C Method
K.	Vapor pressure	:	Ingredient name	mm Hg	1	1	mm	-	1
		:		mm Hg 17.5	kPa	1	mm	-	1
K. L.	Vapor pressure Solubility(ies)	:	₩ater	mm Hg 17.5 Re	kPa 2.3	Method	mm	-	1
		: : : :	water Media	mm Hg 17.5 Re	kPa 2.3 sult	Method	mm	-	1
L.	Solubility(ies) Solubility in water Vapor density	: : : : : : : : : : : : : : : : : : : :	Media póld water	mm Hg 17.5 Re	kPa 2.3 sult	Method	mm	-	1
L. M.	Solubility(ies) Solubility in water Vapor density	: : : : : : : : : : : : : : : : : : : :	Media Cold water Not available.	mm Hg 17.5 Re	kPa 2.3 sult	Method	mm	-	1
L.	Solubility(ies) Solubility in water Vapor density		✓ater Media ✓old water Not available. Not available.	mm Hg 17.5 Re	kPa 2.3 sult	Method	mm	-	1
L. M. N.	Solubility(ies) Solubility in water Vapor density Relative density Partition coefficient: n-		Media Øold water Not available. Not available. 1.18	mm Hg 17.5 Re	kPa 2.3 sult	Method	mm	-	1

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Section 9. Physical and chemical properties

Ingredient name	°C	°F	Method	
2-butoxy-1-methylethoxy)propan- 2-ol	194	381.2	EU A.15	
Not available			•	

- Decomposition : Not available. Q. temperature Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) R. Flow time (ISO 2431) : Not available.
- Molecular weight S.
- : Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability		The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C .	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

Section 11. Toxicological information

Α.	Information on the likely routes of exposure	Not available.
<u>P</u>	otential acute health effe	<u>cts</u>
	Inhalation :	No known significant effects or critical hazards.
	Ingestion :	No known significant effects or critical hazards.
	Skin contact :	Defatting to the skin. May cause skin dryness and irritation.
	Eye contact :	No known significant effects or critical hazards.
<u>0</u>	ver-exposure signs/sym	<u>otoms</u>
	Inhalation :	No specific data.
	Ingestion :	No specific data.
	Skin contact :	Adverse symptoms may include the following: irritation dryness cracking

- Eye contact : No specific data.
- **B. Health hazards** Acute toxicity

Product name PPG AQUACOVER 45 (TINTED) BASE Z

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists		Ŭ	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Kaolin	LC50 Inhalation Dusts and	Rat	>5.07 mg/l	4 hours
	mists		Ŭ	
	LD50 Oral	Rat	>5000 mg/kg	-
(2-methoxymethylethoxy)propanol	LC50 Inhalation Vapor	Rat	500 ppm	4 hours
	LD50 Dermal	Rabbit	9.5 g/kg	-
	LD50 Oral	Rat	5.23 g/kg	-
1-(2-butoxy-1-methylethoxy)propan-2-ol	LC50 Inhalation Dusts and	Rat	5.4 mg/l	4 hours
	mists		Ū.	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	4.05 g/kg	-
Nonylphenol, branched, ethoxylated	LD50 Oral	Rat	2.21 g/kg	-
ammonia	LD50 Oral	Rat	350 mg/kg	-
4,5-Dichloro-2-N-octyl-4-isothizaolin-	LC50 Inhalation Dusts and	Rat	0.16 mg/l	4 hours
3-one	mists			
	LD50 Dermal	Rabbit	3.9 g/kg	-
	LD50 Oral	Rat	567 mg/kg	-
3-iodo-2-propynyl butylcarbamate	LC50 Inhalation Dusts and	Rat	0.67 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	1470 mg/kg	-
zinc pyrithione	LC50 Inhalation Dusts and	Rat	0.14 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	177 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Res	ult	Species	Score	Exposure	Observation
₿-iodo-2-propynyl butylcarbamate	Eyes ·	- Severe irritant	Rabbit	-	-	-
zinc pyrithione	Eyes ·	 Cornea opacity 	Rabbit	4	24 hours	24 hours
Conclusion/Summary				•		
Skin	: There ar	e no data available	on the mixture	itself.		
Eyes	: There ar	e no data available	on the mixture	itself.		
Respiratory	: There an	e no data available	on the mixture	itself.		
Sensitization Conclusion/Summary						
Skin	There are	no data available	on the mixture it	self.		
Respiratory	: There are	no data available	on the mixture it	self.		
Mutagenicity						
Conclusion/Summary	: There are	e no data available	on the mixture it	tself.		
Carcinogenicity						
Conclusion/Summary	: There ar	e no data available	on the mixture i	itself.		
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Section 11. Toxicological information

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
ammonia	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
	Category 1 Category 1	-	trachea -

Aspiration hazard

Not available.

Potential chronic health effects

General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Additional information

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. Contains isothiazolinones. May cause allergic reaction. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Kaolin	CAS: 1332-58-7	Not classified.
(2-methoxymethylethoxy)propanol	CAS: 34590-94-8	FLAMMABLE LIQUIDS - Category 4
1-(2-butoxy-1-methylethoxy)propan-2-ol	CAS: 29911-28-2	EYE IRRITATION - Category 2A
Nonylphenol, branched, ethoxylated	CAS: 68412-54-4	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		AQUATIC HAZARD (LONG-TERM) - Category 2
tetraamminezinc(2+) carbonate	CAS: 38714-47-5	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
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Section 11. Toxicological information

		AQUATIC HAZADD (LONG TEDM) Cotogon (1
u a u du la au a la		AQUATIC HAZARD (LONG-TERM) - Category 1
nonylphenols	CAS: 68649-55-8	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
	CAS: 1336-21-6	
ammonia	CAS. 1330-21-0	SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
		AQUATIC HAZARD (ACUTE) - Category 1
nonylphenols	CAS: 68954-84-7	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
4,5-Dichloro-2-N-octyl-4-isothizaolin-	CAS: 64359-81-5	ACUTE TOXICITY (oral) - Category 4
3-one	0/10.04000 01 0	Neone remain (dial) ballegory 4
3-011e		
		ACUTE TOXICITY (dermal) - Category 3
		ACUTE TOXICITY (inhalation) - Category 2
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
3-iodo-2-propynyl butylcarbamate	CAS: 55406-53-6	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
zinc pyrithione	CAS: 13463-41-7	ACUTE TOXICITY (oral) - Category 3
		ACUTE TOXICITY (inhalation) - Category 2
		SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
		• •
		SPECIFIC TARGET ORGAN TOXICITY
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
		SPECIFIC TARGET ORGAN TOXICITY

Section 12. Ecological information

A. <u>Ecotoxicity</u>

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Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
(2-methoxymethylethoxy) propanol	Acute EC50 1919 mg/l	Daphnia	48 hours
1-(2-butoxy-1-methylethoxy) propan-2-ol	Acute LC50 841 mg/l	Fish	96 hours
4,5-Dichloro-2-N-octyl- 4-isothizaolin-3-one	Acute EC50 267.368 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Acute LC50 0.318 mg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 0.0027 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 19.789 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
3-iodo-2-propynyl butylcarbamate	Acute EC50 0.186 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.067 mg/l	Fish	96 hours
	Chronic NOEC 0.049 mg/l	Fish	96 hours
zinc pyrithione	Acute EC50 5.513 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Acute LC50 0.0082 mg/l	Daphnia	48 hours
	Chronic NOEC 1.889 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Chronic NOEC 0.0027 mg/l	Daphnia	21 days

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
✓ (2-butoxy-1-methylethoxy) propan-2-ol			adily - 28 days	-		-
3-iodo-2-propynyl butylcarbamate zinc pyrithione		25 % - Inho 39 % - 28 o	erent - 28 days days	-		-
Product/ingredient name	Aquatic half-life	·	Photolysis	·	Biodeg	radability
✔-(2-butoxy-1-methylethoxy) propan-2-ol	-		-		Readily	
3-iodo-2-propynyl butylcarbamate	-		-		Inheren	t
zinc pyrithione	-		50%; < 28 day(s)		Not rea	dily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
C-methoxymethylethoxy)	0.004	-	Low
1-(2-butoxy-1-methylethoxy) propan-2-ol	1.523	-	Low
Nonylphenol, branched, ethoxylated	5.39	-	High
zinc pyrithione	0.9	0.9	Low

D. Mobility in soil

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Section 12. Ecological information

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	UN3082	UN3082	UN3082
B. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Nonylphenol, branched, ethoxylated)	(Nonylphenol, branched, ethoxylated)	(Nonylphenol, branched, ethoxylated)
C. Transport hazard class(es)	9	9	9
D. Packing group	III		III
Environmental hazards	Yes.	Yes.	Yes.
E. Marine pollutant substances	Not applicable.	(Nonylphenol, branched, ethoxylated)	Not applicable.

Additional information

UN	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
IMDG	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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Section 14. Transport information

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

Section 15. Regulatory information

Regulation according to ISHA			
ISHA article 117 : None of the components are listed. (Harmful substances prohibited from manufacture)			
ISHA article 118 : None of the components are listed. (Harmful substances requiring permission)			
Article 2 of Youth Protection : It is not allowed to sell to persons under the age of 19 Act on Substances Hazardous to Youth			
Exposure Limits of Chemical Substances and Physical Factors			
The following components have an OEL: Manium dioxide Kaolin (2-methoxymethylethoxy)propanol ammonia			
ISHA Enforcement Regs : None of the components are listed. Annex 19 (Exposure standards established for harmful factors)			
ISHA Enforcement Regs : The following components are listed: titanium dioxide, Annex 21 (Harmful factors subject to Work Environment Measurement)	silicates		
ISHA Enforcement Regs : None of the components are listed. Annex 22 (Harmful Factors Subject to Special Health Check- up)			
Standard of Industrial : The following components are listed: titanium dioxide Safety and Health Annex 12 (Hazardous substances subject to control)			
. Regulation according to Chemicals Control Act			

Article 11 (TRI)

: None of the components are listed.

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Section 15. Regulatory information

	Article 18 Prohibited (K- Reach Article 27)	1	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	The following components are listed: nonylphenol ethoxylates, nonylphenols
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	At least one component is not listed.
	Article 39 (Accident Precaution Chemicals)	:	The following components are listed: nonylphenol ethoxylates, nonylphenols
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 5. Class 3 petroleums - Water soluble liquid Threshold: 4000 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.
Е.	Regulation according to other foreign laws		
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

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.	Date of issue/Date of revision	: 2/16/2024
С.	Version	: 3
	Prepared by	: EHS
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- D. Other
- ✓ Indicates information that has changed from previously issued version.

Disclaimer

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

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