SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 26 April 2022 Version 10.01

Section 1. Chem	ical product and company identification
Product code	: 00194977
Product name	: PPG AQUACOVER 20 BASE Z
Product name	: PPG AQUACOVER 20 BASE Z
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier's details	: PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857
Emergency telephone number (with hours of operation)	: 00 86 532 83889090

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

 Emergency overview

 Liquid.

 Various

 Amine-like.

 May cause damage to organs through prolonged or repeated exposure.

 Toxic to aquatic life.

 Toxic to aquatic life with long lasting effects.

 Contains isothiazolinones.

 May cause allergic reaction.

 Get medical advice or attention if you feel unwell.

 See Section 12 for environmental precautions.

 Classification of the substance or mixture

 :
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 23.6%

GHS label elements

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Section 2. Hazards identification

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Signal word	:	Warning
Hazard statements	:	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life.
Processionery statements		Toxic to aquatic life with long lasting effects.
Precautionary statements		Avoid release to the environment. Do not breathe vener
Prevention	-	Avoid release to the environment. Do not breathe vapor.
Response	÷	Collect spillage. Get medical advice or attention if you feel unwell.
Suitable extinguishing media		Use an extinguishing agent suitable for the surrounding fire.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	:	No known significant effects or critical hazards.
Health hazards	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effec	<u>:ts a</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Environmental hazards	:	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Other hazards which do not result in classification	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number	: Not applicable.
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%	CAS number
1 - <10	14807-96-6
1 - <10	13701-59-2
1 - <10	7779-90-0
1 - <10	1314-13-2
1 - <10	25265-77-4
1 - <10	14808-60-7
<0.1	55965-84-9
	1 - <10 1 - <10 1 - <10 1 - <10 1 - <10 1 - <10 1 - <10

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

Occupational exposure limits, if available, are listed in Section 8. SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

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.

Potential acute health e	effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Section 4. First aid measures

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. 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 an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. 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 phosphorus oxides 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.
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.

Section 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. 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. Collect spillage.

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill	Stop leak if without risk. Move containers from spill area. 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. 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

Precautions for safe handling	v r a E	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	a s (r k a	Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. 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. 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 ncompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
	GBZ 2.1 (China, 8/2019). PC-TWA: 1 mg/m ³ 8 hours. Form: respirable dust PC-TWA: 3 mg/m ³ 8 hours. Form: total dust
barium diboron tetraoxide	GBZ 2.1 (China, 8/2019). PC-STEL: 1.5 mg/m ³ , (as Ba) 15 minutes. PC-TWA: 0.5 mg/m ³ , (as Ba) 8 hours.
zinc oxide	GBZ 2.1 (China, 8/2019). PC-STEL: 5 mg/m ³ 15 minutes. PC-TWA: 3 mg/m ³ 8 hours.
crystalline silica, respirable powder (<10 microns)	GBZ 2.1 (China, 8/2019). PC-TWA: 0.7 mg/m ³ 8 hours. Form:
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respirable dust, $10\% \le \text{free SiO2} \le 50\%$

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Section 8. Exposure controls/personal protection

			PC-TWA: 0.3 mg/m ³ 8 hours. Form: respirable dust, $50\% < \text{free SiO2} \le 80\%$ PC-TWA: 0.2 mg/m ³ 8 hours. Form: respirable dust, free SiO2 > 80%
Recommended monitoring procedures	:	atmosphere or biological monitoring m of the ventilation or other control meas	
Appropriate engineering controls	:		es, gas, vapor or mist, use process enclosures, neering controls to keep worker exposure to ommended or statutory limits.
Environmental exposure controls	:		
Individual protection measured	<u>es</u>		
Hygiene measures	:	eating, smoking and using the lavatory Appropriate techniques should be use	d to remove potentially contaminated clothing. eusing. Ensure that eyewash stations and
Eye protection	1	Safety glasses with side shields.	
Skin protection			
Hand protection	:	be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of e of the gloves cannot be accurately
Gloves	:	For prolonged or repeated handling, u	se the following type of gloves:
		Recommended: nitrile rubber, Chlorop	prene, Viton®
Body protection	:		body should be selected based on the task d and should be approved by a specialist
Other skin protection	:		al skin protection measures should be ormed and the risks involved and should be ng this product.
Respiratory protection	:	hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed I standard if a risk assessment indicates this is

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Section 8. Exposure controls/personal protection

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Various
Odor	: Amine-like.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 120°C (248°F)
Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 0.6% Upper: 4.2% (isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol)
Relative density	: 1.31
Solubility	: Partially soluble in the following materials: cold water.
Viscosity	: Kinematic (40°C): >21 mm²/s

Section 10. Stability and reactivity				
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.			
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.			
Hazardous decomposition products	 Depending on conditions, decomposition products may include the following materials: carbon oxides phosphorus oxides metal oxide/oxides 			

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
arium diboron tetraoxide	LC50 Inhalation Dusts and mists	Rat	>3540 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	0.85 g/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-

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Section 11. Toxicological information

	•			
	LD50 Oral	Rat	>5000 mg/kg	-
isobutyric acid, monoester with	LD50 Dermal	Rabbit	>15.2 g/kg	-
2,2,4-trimethylpentane-1,3-diol				
	LD50 Oral	Rat	6.5 g/kg	-
reaction mass of: 5-chloro-	LD50 Oral	Rat	53 mg/kg	-
2-methyl-4-isothiazolin-3-one				
[EC no. 247-500-7] and				
2-methyl-2H-isothiazol-3-one				
[EC no. 220-239-6] (3:1)				

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	•••	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

Aspiration hazard

Not available.

Information on the likely : Not available.

routes of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
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 eff	ects
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PPG AQUACOVER 20 BASE Z barium diboron tetraoxide zinc oxide isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	23426.4 850 N/A 6500 53	32801.4 2500 2500 N/A 50	N/A N/A N/A N/A N/A	N/A N/A N/A N/A 0.5	37.9 1.5 N/A N/A 0.05

Other information

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Sanding and grinding dusts may be harmful if inhaled. Contains isothiazolinones. May cause allergic reaction.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	Acute LC50 33 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	OECD 301B	>76 % - Re	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	-		-		Readily	1

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	3.2	-	low

Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

Other adverse effects :

: No known significant effects or critical hazards.

Section 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 nonrecyclable 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Product name PPG AQUACOVER 20 BASE Z

Section 13. Disposal considerations

Section 14. Transport information

	-			
	China	UN	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082	UN3082
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.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(trizinc bis (orthophosphate), zinc oxide)	(trizinc bis (orthophosphate), zinc oxide)	(trizinc bis (orthophosphate), zinc oxide)	(trizinc bis (orthophosphate), zinc oxide)
Transport hazard class(es)	9	9	9	9
Packing group	111	Ш	Ш	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	Not applicable.	(trizinc bis (orthophosphate), zinc oxide)	Not applicable.

Additional information

CN	: None identified.
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.
Onesistem	

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

China inventory (IECSC)	: All components are listed or exempted.
References	: Production Safety Law of the People's Republic of China Code of Occupational Disease Prevention of the People's Republic of China Environmental Protection Law of the People's Republic of China Fire Control Law of the People's Republic of China Regulations on the Control over Safety of Dangerous Chemicals Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1)

Product name PPG AQUACOVER 20 BASE Z

Section 15. Regulatory information

General rule for classification and hazard communication of chemicals (GB13690) Safety data sheet for chemical products - Content and order of sections (GB/ T16483)

Guidance on the compilation of safety data sheet for chemical products (GB/ T17519)

General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 26 April 2022
Date of previous issue	: 5/21/2021
Version	: 10.01
	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.