# **SAFETY DATA SHEET**



Date of issue/Date of revision19 August 2022Version 4.21

Section 1. Identification			
Product code	: 00173148		
Product name	: PPG AQUACOVER 25 BUFF		
Product type	: Liquid.		
Relevant identified uses of the substance or mixture and uses advised against			
Product use	Coating. Professional applications, Used by spraying.		
Supplier's details	: PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737		
Emergency telephone number (with hours of operation)	: CHEMTREC +(65)-31581349 (CCN 17704)		

#### Section 2. Hazards identification : LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 **Classification of the** substance or mixture **GHS label elements, including precautionary statements** Hazard pictograms 2 Signal word : No signal word. **Hazard statements** : Toxic to aquatic life with long lasting effects. **Precautionary statements Prevention** : Avoid release to the environment. Response : Collect spillage. Storage : Not applicable. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. Other hazards which do not : Contains isothiazolinones. May cause allergic reaction.

#### result in classification

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# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers
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CAS number	: Not applicable.
EC number	: Mixture.

Ingredient name	%	CAS number
✓alc , not containing asbestiform fibres	5 - <10	14807-96-6
barium diboron tetraoxide	3 - <5	13701-59-2
trizinc bis(orthophosphate)	1 - <3	7779-90-0
2-(2-butoxyethoxy)ethanol	1 - <3	112-34-5
zinc oxide	1 - <3	1314-13-2

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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 recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show the container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important	<u>symptoms/effects,</u>	acute and delayed

Ingestion

Potential acute health effect	<u>s</u>
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/sympto	<u>oms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.

: No specific data.

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

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### 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 Protection of first-aiders	<ul> <li>No specific treatment.</li> <li>No action shall be taken involving any personal risk or without suitable training.</li> </ul>

#### See toxicological information (Section 11)

# Section 5. Firefighting 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	action shall be taken involving any personal risk or without s icuate surrounding areas. Keep unnecessary and unprotec ering. Do not touch or walk through spilt material. Put on a tective equipment.	ted personnel from
For emergency responders	becialised clothing is required to deal with the spillage, take rmation in Section 8 on suitable and unsuitable materials. rmation in "For non-emergency personnel".	
Environmental precautions	id dispersal of spilt material and runoff and contact with soil sewers. Inform the relevant authorities if the product has o ution (sewers, waterways, soil or air). Water polluting mate ne environment if released in large quantities. Collect spilla	caused environmental rial. May be harmful

#### Methods and material for containment and cleaning up

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### 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 the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

# Section 8. Exposure controls/personal protection

Ingredient name			Exposure limits
▲ A lot containing asbestif	orm	fibres	Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 2 mg/m <sup>3</sup> 8 hours.
barium diboron tetraoxide			Workplace Safety and Health Act (Singapore, 2/2006). [Barium, soluble compounds] PEL (long term): 0.5 mg/m <sup>3</sup> , (Ba) 8 hours.
2-(2-butoxyethoxy)ethanol			ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
zinc oxide			Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 10 mg/m <sup>3</sup> 8 hours. Form: Dust PEL (short term): 10 mg/m <sup>3</sup> 15 minutes. Form: Fume PEL (long term): 5 mg/m <sup>3</sup> 8 hours. Form: Fume
Recommended monitoring procedures	:	atmosphere or biological monitoring r of the ventilation or other control mea	
Appropriate engineering controls	:	Good general ventilation should be su contaminants.	ufficient to control worker exposure to airborne
Environmental exposure controls	:		
ndividual protection measur	<u>'es</u>		
Hygiene measures	:	eating, smoking and using the lavator Appropriate techniques should be use	bughly after handling chemical products, before y and at the end of the working period. ed to remove potentially contaminated clothing. eusing. Ensure that eyewash stations and station location.
Eye/face protection Skin protection	:	Safety glasses with side shields.	

Product name PPG AQUACOVER 25 BUFF

# Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: nitrile rubber, Chloroprene, Viton®, butyl rubber
Body protection	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Amine-like.
рН	Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: 0.003 (2-(2-butoxyethoxy)ethanol) compared with butyl acetate
Flammability (solid, gas)	: liquid
Vapour pressure	: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 2.83 kPa (21.23 mm Hg) (at 20°C)
Vapour density	<ul> <li>Highest known value: 7.5 (Air = 1) (isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol). Weighted average: 6.55 (Air = 1)</li> </ul>
Relative density	: 1.37
Solubility	: Partially soluble in the following materials: cold water.
Auto-ignition temperature	: 225°C
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	: 60 - 100 s (ISO 6mm)

### 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: oxidising 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

#### Acute toxicity

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Product/ingredient name	Result	Species	Dose	Exposure
arium diboron tetraoxide	LC50 Inhalation Dusts and mists	Rat	>3540 mg/m <sup>3</sup>	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	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
rritation/Corrosion	There are no data available on the	mixture itself.		
rritation/Corrosion Conclusion/Summary Skin : Eyes :	There are no data available on the There are no data available on the There are no data available on the There are no data available on the	mixture itself. mixture itself.		
rritation/Corrosion Conclusion/Summary Skin : Eyes : Respiratory :	There are no data available on the There are no data available on the	mixture itself. mixture itself.		
rritation/Corrosion Conclusion/Summary Skin : Eyes : Respiratory : Sensitisation Conclusion/Summary	There are no data available on the There are no data available on the	mixture itself. mixture itself. mixture 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		Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3		Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on likely routes : Not available.

#### 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

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Potential chronic health effects : No known significant effects or critical hazards. General : No known significant effects or critical hazards. Carcinogenicity Singapore English (GB)

### Section 11. Toxicological information

: No known significant effects or critical hazards. **Mutagenicity** 

**Reproductive toxicity** 

: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	28333.33 mg/kg
Inhalation (dusts and mists)	43.73 mg/l

#### **Other information**

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

# Section 12. Ecological information

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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 -	48 hours
	J J	Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

#### Persistence/degradability

#### Not available.

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

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	low

Mobility in soil Soil/water partition coefficient (K <sub>oc</sub> )	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

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Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	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.
	(trizinc bis(orthophosphate), zinc oxide)	(trizinc bis(orthophosphate), zinc oxide)	(trizinc bis(orthophosphate), zinc oxide)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(trizinc bis(orthophosphate), zinc oxide)	Not applicable.

#### **Additional information**

UN	This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5 L or $\leq$ 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 $\leq 5$ L or $\leq 5$ 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 $\leq$ 5 L or $\leq$ 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.	
Special precaution	<b>s for user : Transport within user's premises:</b> 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 to IMO instrumer	• • • •	

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### Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

International regulations Montreal Protocol Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 19 August 2022
Date of previous issue	: 4/26/2022
Version	: 4.21
Prepared by	: EHS
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container 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) UN = United Nations</li> </ul>

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.