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 6

Section 1. Chemical product and company identification			
Product code	: 00195000		
Product name	: PPG AQUACOVER 20		
Product name	: PPG AQUACOVER 20		
Product type	: Liquid.		
Relevant identified uses of	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. Zauses mild skin irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Contains isothiazolinones. May cause allergic reaction.

Fskin irritation occurs: Get medical advice or attention.

See Section 12 for environmental precautions.

Classification of the substance or mixture	 KIN CORROSION/IRRITATION - Category 3 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: 12.1%

GHS label elements

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Section 2. Hazards identification

Hazard pictograms		
Signal word	: Warning	
Hazard statements	 Zauses mild skin irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. 	
Precautionary statements	Toxic to aquatic life with long lasting enects.	
Prevention	: Avoid release to the environment.	
Response	: Collect spillage. If skin irritation occurs: Get medical advice or attention.	
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	: Causes mild skin irritation.	
Symptoms related to the phy	sical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
Delayed and immediate effect	ts 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.	
Environmental hazards	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.	
Other hazards which do not result in classification	: None known.	
	China Bago: 2	0/4

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
parium diboron tetraoxide	1 - <10	13701-59-2
trizinc bis(orthophosphate)	1 - <10	7779-90-0
zinc oxide	1 - <10	1314-13-2
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	1 - <10	25265-77-4
Talc , not containing asbestiform fibres	1 - <10	14807-96-6
2-butoxyethanol	1 - <10	111-76-2
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)	<0.1	55965-84-9

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 effect	<u>'S</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes mild skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>oms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness

Section 4. First aid measures

Ingestion

: No specific data.

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

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".		

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Section 6. Accidental release measures

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 co	onta	ainment and cleaning up
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
 i Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.
 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

incompatible materials before handling or use.

kept upright to prevent leakage. Do not store in unlabeled containers. Use

appropriate containment to avoid environmental contamination. See Section 10 for

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits

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Section 8. Exposure controls/personal protection

Ingredient name			Exposure limits
arium diboron tetraoxide			GBZ 2.1 (China, 8/2019). PC-STEL: 1.5 mg/m³, (as Ba) 15 minutes. PC-TWA: 0.5 mg/m³, (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.
Talc , not containing asbestiform fibres		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	
2-butoxyethanol			GBZ 2.1 (China, 8/2019). PC-TWA: 97 mg/m ³ 8 hours.
of the ventilation or other control mean		hay be required to determine the effectiveness sures and/or the necessity to use respiratory uld be made to appropriate monitoring dance documents for methods for the	
Appropriate engineering controls	: Sood general ventilation should be sufficient to control worker exposure to airborne contaminants.		
they comply with the requirements of cases, fume scrubbers, filters or engi			
ndividual protection measur	es		
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.	
Eye protection	:	Safety glasses with side shields.	
Skin protection			
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
Gloves	:	For prolonged or repeated handling, u	se the following type of gloves:
		Recommended: nitrile rubber, Chlorop	prene, Viton®, butyl rubber
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	

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Section 8. Exposure controls/personal protection

Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Various
Odor	: Amine-like.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: Not applicable.
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	: 1.37
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

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
barium diboron tetraoxide	LC50 Inhalation Dusts	Rat	>3540 mg/m ³	4 hours
	and mists			
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	0.85 g/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts	Rat	>5.7 mg/l	4 hours
	and mists		_	
	LD50 Oral	Rat	>5000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts	Rat	>5700 mg/m ³	4 hours
	and mists		-	
	LD50 Dermal	Rat	>2000 mg/kg	-
	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	-
2-butoxyethanol	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/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

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Skin - Moderate irritant Eyes - Irritant	Rabbit Rabbit	-	4 hours 24 hours	28 days 21 days

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
	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Section 11. Toxicological information

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects	<u>i</u>	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Causes mild skin irritation.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effec	ts	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
General	1	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.
Numerical measures of toxic	ity	

Acute toxicity estimates

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Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PG AQUACOVER 20 barium diboron tetraoxide zinc oxide isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	20223.3 850 N/A 6500	29638.7 2500 2500 N/A	N/A N/A N/A N/A	574.3 N/A N/A N/A	44.3 1.5 N/A N/A
2-butoxyethanol 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)	1200 53	2500 50	N/A N/A	11 0.5	N/A 0.05

Other information

Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. 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
2-butoxyethanol	Acute LC50 1474 mg/l Chronic NOEC >100 mg/l	Fish Fish	96 hours 21 days

Persistence/degradability

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

Bioaccumulative potential

Product name PPG AQUACOVER 20

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	3.2	-	low
2-butoxyethanol	0.81	-	low

Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

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 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

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	111	111	111		
Environmental hazards	Yes.	Yes.	Yes.	Yes.		
Marine pollutant substances	Not applicable.	Not applicable.	(trizinc bis (orthophosphate), zinc oxide)	Not applicable.		

Additional information

Product code 00195000 Version 6 Date of issue 26 April 2022 Product name PPG AQUACOVER 20 Section 14. Transport information CN : None identified. : This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, UN 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. : This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, IMDG 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. : This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, ΙΑΤΑ 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 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.
Co Er Fir Re Oo ha Ge Sa T1 Gu T1 Ge Sa	oduction Safety Law of the People's Republic of China ode of Occupational Disease Prevention of the People's Republic of China evironmental Protection Law of the People's Republic of China re Control Law of the People's Republic of China egulations on the Control over Safety of Dangerous Chemicals occupational exposure limits for hazardous agents in the workplace chemical zardous agents (GBZ2.1) eneral rule for classification and hazard communication of chemicals (GB13690) offety data sheet for chemical products - Content and order of sections (GB/ 6483) uidance on the compilation of safety data sheet for chemical products (GB/ 7519) eneral rule for preparation of precautionary label for chemicals (GB15258) offety rules for classification, precautionary labeling and precautionary statements chemicals (GB30000.2-29)

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 26 April 2022
Date of previous issue	: 9/3/2021
Version	: 6
	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

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Section 16. Other information

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

V 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.