# **SAFETY DATA SHEET**



Date of issue 1/15/2020 (month/day/year)

Version 4.04

### Section 1. Chemical product and company identification

A. Product name<br/>Product code: SIGMASHIELD 1090 BASE RAL 6002<br/>: 00292637

В.	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. Paint. Painting-related materials.
	Uses advised against	: Product is not intended, labelled or packaged for consumer use.
C.	Supplier's information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea

Tel: +82-52-210-8222Email AddressKorea.MSDS@PPG.COMEmergency telephone: +82-52-210-8222number:

# Section 2. Hazards identification

A. Hazard classification	: ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	SKIN SENSITIZATION - Category 1
	GERM CELL MUTAGENICITY - Category 2
	CARCINOGENICITY - Category 1A
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is classified in a	ccordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol



Signal word

: Danger

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### Section 2. Hazards identification

Hazard statements	: H332 - Harmful if inhaled.
	H319 - Causes serious eye irritation.
	H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H350 - May cause cancer.
	H341 - Suspected of causing genetic defects.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing
	P271 - Use only outdoors or in a well-ventilated area.
	P273 - Avoid release to the environment.
	P261 - Avoid breathing vapor.
	P264 - Wash hands thoroughly after handling.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	: 🗗 308 + P313 - IF exposed or concerned: Get medical attention.
	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep
	comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water.
	Take off contaminated clothing and wash it before reuse.
	P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P337 + P313 - If eye irritation persists: Get medical attention.
Storage	: P405 - Store locked up.
•	•
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional,
	national and international regulations.

C. Other hazards which do : None known. not result in classification

### Section 3. Composition/information on ingredients

#### CAS number/other identifiers

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
vystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	70 - <80
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	EPOXY RESIN	CAS: 25068-38-6	10 -<20
2,3-epoxypropyl neodecanoate	GLYCIDYL NEODECANOATE	CAS: 26761-45-5	1 - <5
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5

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.

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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	4	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	;	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	:	None known.
Β.	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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
C.	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.

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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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
C. Methods and materials for	со	ntainment 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

Α.	Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.
В.	Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in 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. 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
	Prystalline silica, respirable	ро	wder (>10 microns)	Ministry of Employment and Labor (Republic of Korea, 7/2018). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	Recommended monitoring procedures	:	atmosphere or biological monitoring i of the ventilation or other control mea protective equipment. Reference sho	th exposure limits, personal, workplace may be required to determine the effectiveness asures and/or the necessity to use respiratory build be made to appropriate monitoring dance documents for methods for the ses will also be required.
В.	Appropriate engineering controls	:		Jse process enclosures, local exhaust ventilation worker exposure to airborne contaminants / limits.
	Environmental exposure controls	:	they comply with the requirements of	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process equipment s to acceptable levels.
C. Personal protective equipment				
	Respiratory protection	:	hazards of the product and the safe workers are exposed to concentratio appropriate, certified respirators. Us	on known or anticipated exposure levels, the working limits of the selected respirator. If ns above the exposure limit, they must use e a properly fitted, air-purifying or air-fed ed standard if a risk assessment indicates this is
	Eye protection	:	Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling of this is necessary. Considering the pa- check during use that the gloves are should be noted that the time to brea- for different glove manufacturers. In	es complying with an approved standard should chemical products if a risk assessment indicates arameters specified by the glove manufacturer, still retaining their protective properties. It akthrough for any glove material may be different the case of mixtures, consisting of several e gloves cannot be accurately estimated.
	Gloves	:	butyl rubber	
	Body protection	:		e body should be selected based on the task ed and should be approved by a specialist
	Hygiene measures	:	eating, smoking and using the lavato Appropriate techniques should be us Contaminated work clothing should be	roughly after handling chemical products, before bry and at the end of the working period. Sed to remove potentially contaminated clothing. not be allowed out of the workplace. Wash g. Ensure that eyewash stations and safety location.

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# **Section 9. Physical and chemical properties**

<b>A</b> .	Appearance		
	Physical state	:	Liquid.
	Color	1	Green.
В.	Odor	1	Characteristic.
С.	Odor threshold	1	Not available.
D.	рН	1	Not available.
Ε.	Melting/freezing point	1	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	1	Closed cup: Not applicable.
н.	Evaporation rate	:	Not available.
Т.	Flammability (solid, gas)	1	Not available.
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Κ.	Vapor pressure	:	Not available.
Ц.	Solubility	:	Insoluble in the following materials: cold water.
Μ.	Vapor density	:	Not available.
N.	Relative density	1	2.06
0.	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Not available.
Q.	Decomposition temperature	:	Not available.
R.	Viscosity	1	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
S.	Molecular weight	:	Not applicable.

# Section 10. Stability and reactivity

		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 halogenated compounds metal oxide/oxides
	reactions Conditions to avoid Incompatible materials Hazardous	Possibility of hazardous reactions:Conditions to avoid:Incompatible materials:Hazardous:

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### Section 11. Toxicological information

A. Information on the likely : Not available. routes of exposure

#### Potential acute health effects

- Inhalation : Marmful if inhaled.
- **Ingestion** : No known significant effects or critical hazards.
- Skin contact : Zauses skin irritation. May cause an allergic skin reaction.
- **Eye contact** : **C**auses serious eye irritation.

#### **Over-exposure signs/symptoms**

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

#### B. Health hazards

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	11.4 g/kg	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-

<u>Conclusion/Summary</u>	
Skin	
Eyes	

: There are no data available on the mixture itself.

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

Sensitization

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# Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result	
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing	
•		a available on the mixture itself a available on the mixture itself	-	
<u>Mutagenicity</u> Conclusion/Summary :	There are no dat	a available on the mixture itsel	f.	
<u>Carcinogenicity</u> Conclusion/Summary :	There are no da	ta available on the mixture itse	lf.	
Reproductive toxicity Conclusion/Summary	There are no da	ata available on the mixture itse	lf.	
Teratogenicity Conclusion/Summary	There are no da	ata available on the mixture itse	lf.	
Specific target organ toxicit Not available.	<u>y (single exposu</u>	<u>re)</u>		

Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2

#### Potential chronic health effects

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Suspected of causing genetic defects.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### **Additional information**

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### Section 11. Toxicological information

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. Emits toxic fumes when heated.

Chemical name	Common name	CAS #	GHS Classification
vystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	14808-60-7	CARCINOGENICITY - Category 1A
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	EPOXY RESIN	25068-38-6	SKIN CORROSION/IRRITATION - Category 2
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
			SKIN ŠEŃSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) -
2,3-epoxypropyl neodecanoate	GLYCIDYL NEODECANOATE	26761-45-5	Category 2 SKIN SENSITIZATION - Category 1
			GERM CELL MUTAGENICITY - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
benzyl alcohol	BENZYL ALCOHOL	100-51-6	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2

### Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Peaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l Acute LC50 9.6 mg/l	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Feaction product: bisphenol- A-(epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 days	-	-

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### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
A-(epichlorhydrin); epoxy resin	-	-	Not readily
2,3-epoxypropyl neodecanoate	-	-	Not readily
benzyl alcohol	-	-	Readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
A-(epichlorhydrin); epoxy	3	31	low
resin 2,3-epoxypropyl neodecanoate	4.4	-	high
benzyl alcohol	1.1	-	low

#### D. Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

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

### Section 14. Transport information

	UN	IMDG	TAI	Ά
A. UN number	Not regulated.	Not regulated.	Not reg	ulated.
B. UN proper shipping name	-	-	-	
C. Transport hazard class(es)	-	-	-	
D. Packing group	-	-	-	
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### Section 14. Transport information

Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

UN	: None identified.
IMDG	: None identified.
IATA	: None identified.

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

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

# Section 15. Regulatory information

Α.	egulation according to ISHA		
	ISHA article 37 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 38 (Harmful substances requiring permission)	:	None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	It is not allowed to sell to persons under the age of 19.
	Exposure Limits of Chemi	<u>ca</u>	Substances and Physical Factors
	The following components		
	ISHA Enforcement Regs Annex 11-3 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	₱ following components are listed: Quartz (Mineral dust)
	ISHA Enforcement Regs Annex 12-2 (Harmful Factors Subject to Special Health Check-up)	:	None of the components are listed.
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	None of the components are listed.

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### Section 15. Regulatory information

В.	8. Regulation according to Chemicals Control Act		
	CCA Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	CCA Article 18 Prohibited (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 20 Restricted (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 11 (TRI)	:	None of the components are listed.
	Korea inventory	:	All components are listed or exempted.
	CCA Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	Not applicable.
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Е.	E. <u>Regulation according to other foreign laws</u>		
	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	:	1/15/2020

C. Version : 4.04 : EHS

Prepared by

**D.** Other

#### Procedure used to derive the classification

Classification	Justification
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315 Eye Irrit. 2, H319	Calculation method Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Carc. 1A, H350 Aquatic Chronic 3, H412	Calculation method Calculation method

✓ Indicates information that has changed from previously issued version.

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### Section 16. Other information

#### <u>Disclaimer</u>

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.