# **SAFETY DATA SHEET**



Date of issue/Date of revision3 September 2024Version 1

Section 1. Identification		
Product name	: SIGMAZINC 158 PIGMENT GREY	
Product code	: 000001100672	
Other means of identification	: 00286103	
Product type	: Powder.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Professional applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	: COMBUSTIBLE DUSTS
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 97% (oral), 97% (dermal)
GHS label elements	
Signal word	: Warning
Hazard statements	: May form combustible dust concentrations in air.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.

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# Section 2. Hazards identification

Supplemental label elements	<ul> <li>Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces No smoking. Sanding and grinding dusts may be harmful if inhaled. Prevent dust accumulation. Emits toxic fumes when heated.</li> </ul>
Hazards not otherwise classified	: Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

# Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Product name	1	SIGMAZINC 158 PIGMENT GREY
Other means of identification	:	00286103

Ingredient name	%	CAS number	
zinc oxide	≥1.0 - ≤3.7	1314-13-2	

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### 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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

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### Section 4. First aid measures

### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact Ingestion	<ul><li>No specific data.</li><li>No specific data.</li></ul>

Indication of immediate med	lica	l 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.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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, protect	:tiv	e 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information i 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).

Methods and materia	Is for containment and cleaning up
Small spill	<ul> <li>Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.</li> </ul>
Large spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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# Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits
zinc oxide		OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust ACGIH TLV (United States, 7/2023). STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Respirable fraction TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	Key to abbreviations	
A       = Acceptable Maximum Per         ACGIH       = American Conference of         C       = Ceiling Limit         F       = Fume         IPEL       = Internal Permissible Expr         OSHA       = Occupational Safety and         R       = Respirable	ak Governmental Industrial Hygienists. osure Limit	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average
•	0 Subpart Z - Toxic and Hazardous Substances	<b>a b</b>
onsult local authorities for a	acceptable exposure limits.	
Recommended monitoring procedures		opriate monitoring standards. Reference to nationation for the determination of hazardous substances will
ontrols	or mist, use process enclosures, lo to keep worker exposure to airborn limits. The engineering controls al below any lower explosive limits. U : Emissions from ventilation or work	If user operations generate dust, fumes, gas, vapor cal exhaust ventilation or other engineering controls be contaminants below any recommended or statuto so need to keep gas, vapor or dust concentrations Jse explosion-proof ventilation equipment. process equipment should be checked to ensure
ontrols dividual protection measure	cases, fume scrubbers, filters or en will be necessary to reduce emissi	of environmental protection legislation. In some ngineering modifications to the process equipment ons to acceptable levels.
Hygiene measures	: Wash hands, forearms and face the eating, smoking and using the lava Appropriate techniques should be	oroughly after handling chemical products, before tory and at the end of the working period. used to remove potentially contaminated clothing. e reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

: Safety glasses with side shields.

### Eye/face protection Skin protection

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# 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.
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.
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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	: S	Solid.	
	P	Powder.	
Color	: G	Gray.	
Odor	: 0	Ddorless.	
Odor threshold	: N	lot available.	
рН	: N	lot applicable.	
Melting point	: N	lot available.	
Boiling point	: N	lot available.	
Flash point	: C	Closed cup: Not applicable.	
Auto-ignition temperature	: N	lot applicable.	
Decomposition temperature	: N	lot available.	
Flammability	: N	lot available.	
Lower and upper explosive (flammable) limits	: N	lot applicable.	
Evaporation rate	: N	lot available.	
Vapor pressure	: N	lot available.	
Vapor density	: N	lot applicable.	
Relative density	: 7.	<b>.</b> .14	
Density(lbs / gal)	: 59	59.59	
		Vedia	Result
Solubility(ies)	c	cold water	Not soluble
	<u> </u>		

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

Partition coefficient: n- octanol/water	: Not applicable.
Viscosity	: Kinematic (40°C (104°F)): Not applicable.
Volatility	: 0% (v/v), 0% (w/w)
% Solid. (w/w)	: 100

# 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. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: metal oxide/oxides

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data available on the	he mixture itse	lf.	
Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on the	he mixture itse	lf.	
Eyes	: There are no data available on the	he mixture itse	lf.	
Respiratory	: There are no data available on the	he mixture itse	lf.	
<u>Sensitization</u>				
Conclusion/Summary				
Skin	: There are no data available on the	ne mixture itse	lf.	
Respiratory	: There are no data available on the	he mixture itse	lf.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available on the	he mixture itse	lf	

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# Section 11. Toxicological information

<b>Carcinogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ toxic	<u>city (single exposure)</u>
Not available.	
Specific target organ toxic	city (repeated exposure)
Not available.	
<u>Target organs</u>	: Contains material which may cause damage to the following organs: upper respiratory
	tract.
Aspiration hazard	
Not available.	
Not available.	
Information on the likely ro	utes of exposure
Potential acute health effe	<u>ects</u>
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits
	may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits
Skin contact	may cause irritation of the nose, throat and lungs. <ul> <li>No known significant effects or critical hazards.</li> </ul>
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	•
Eye contact	: Adverse symptoms may include the following:
-	irritation
to be to the se	redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation
	coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effe	ects and also chronic effects from short and long term exposure
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself. Repeated exposure of the eyes to a
	low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust
	may lead to chronic respiratory irritation. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and
	also chronic effects of components from short-term and long-term exposure by oral,
	inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	

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# Section 11. Toxicological information

Potential immediate effects	-	There are no data ava	ailable on the	e mixture itsel	lf.		
Potential delayed effects	1	There are no data ava	ailable on the	mixture itsel	lf.		
Potential chronic health eff	fect	<u>s</u>					
General	1	Repeated or prolonge	ed inhalation	of dust may l	ead to chronic	; respiratory i	rritation.
Carcinogenicity	1	No known significant	effects or crit	tical hazards.			
Mutagenicity	:	No known significant	effects or crit	tical hazards.			
Reproductive toxicity	:	No known significant	effects or crit	tical hazards.			
Numerical measures of toxic	<u>city</u>						
Acute toxicity estimates							
Product/ingredient name			Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and

	57	(ppm)	(mg/l)	mists) (mg/ I)	
	N/A N/A	N/A N/A	N/A N/A	N/A N/A	

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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### 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

•				
	DOT	IMDG	ΙΑΤΑ	
UN number	UN3077	UN3077	UN3077	
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	
		(Zinc powder - zinc dust (stabilized), zinc oxide)	(Zinc powder - zinc dust (stabilized), zinc oxide)	
Transport hazard class (es)	9	9	9	
Packing group	111	III	Ш	
Environmental hazards	Yes.	Yes.	Yes.	
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.	
Product RQ (lbs)	1030.9	Not applicable.	Not applicable.	
RQ substances	(Zinc powder - zinc dust (stabilized))	Not applicable.	Not applicable.	

### 14. Transport information

#### Additional information

DOT	: Non-bulk packages of this product are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.
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. The segregation group has been manually assigned based upon product analysis.

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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### 14. Transport information

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

#### United States

United States inventory (TSCA 8b) : All components are active or exempted.

United States - TSCA 12(b) - Chemical export notification: Zinc powder - zinc dust (stabilized)		Annual notification	
<u>SARA 302/304</u>			
SARA 304 RQ	: Not applicable.		
Composition/informatio	<u>n on ingredients</u>		
No products were found.			
<u>SARA 311/312</u>			
Classification	: COMBUSTIBLE DUSTS		
Composition/informatio	<u>n on ingredients</u>		
No products were found.			
<u>SARA 313</u>			
Supplier notification	<ul> <li><u>Chemical name</u></li> <li>Zinc powder - zinc dust (stabilized) zinc oxide</li> </ul>	<u>CAS number</u> 7440-66-6 1314-13-2	<u>Concentration</u> 60 - 100 1 - 5
copying and redistribution	ust not be detached from the SDS and any copying of the notice attached to copies of the SDS subse	quently redistributed.	
	al information is contained on the Environmen		product, which

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 1 Flammability : 0 Physical hazards : 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 1 Flammability : 0 Instability : 1

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### Section 16. Other information

Date of previous issue	: No previous validation
Organization that prepared the SDS	: EHS
Key to abbreviations	: 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) N/A = Not available SGG = Segregation Group UN = United Nations

### ✓ Indicates information that has changed from previously issued version.

#### **Disclaimer**

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