# **SAFETY DATA SHEET**

PSX 700 RAL 7038 GRAY RESIN



#### Date of issue 17 February 2020

Version 2.04

## 1. Product and company identification

I. I Ioddot alla	company facilities
Product name	: PSX 700 RAL 7038 GRAY RESIN
Product code	: 00349196
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	<ul> <li>PPG PMC Japan Co., Ltd.</li> <li>8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803</li> <li>Tel : +81 78 574 2777</li> <li>Fax : +81 78 576 0035</li> </ul>
Emergency telephone number	: 078 574 2777

## 2. Hazards identification

GHS Classification	<ul> <li>SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory system) - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>May cause an allergic skin reaction.</li> <li>May cause cancer.</li> <li>Causes damage to organs through prolonged or repeated exposure. (respiratory system)</li> <li>Hormful to equation life with long leating offector</li> </ul>
Precautionary statements	Harmful to aquatic life with long lasting effects.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
	Japan Page: 1/12

			 4	

2. Hazards identifi	cation
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: None known.

### 3. Composition/information on ingredients

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Substance/mixture

Mixture

#### CAS number/other identifiers

CAS number	: Not applicable.
ENCS number	: Not available.

Ingredient name	%	CAS number	ENCS
4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25 - <50	30583-72-3	Not available.
titanium dioxide (nanoparticle)	20 - <25	13463-67-7	1-558
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	1 - <2	41556-26-7	5-5501
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.2 - <0.5	82919-37-7	5-5593
Silica (silicon dioxide containing crystalline and amorphous)	0.2 - <0.5	7631-86-9	1-548
Crystalline-quartz	0.1 - <0.2	14808-60-7	1-548
Carbon black	0.1 - <0.2	1333-86-4	5-3328; 5-5222
Zirconium oxide	0.1 - <0.2	1314-23-4	1-563
Methanol	0.1 - <0.2	67-56-1	2-201

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.

### 4. First aid measures

Description of necess	ary 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

<b>Potentia</b>	acute	health	effects

Eye contact :	No known significant effects or critical hazards.
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#### Product name PSX 700 RAL 7038 GRAY RESIN

4. First aid measu	ures
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: 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)

#### 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing : None known. media Specific hazards arising : In a fire or if heated, a pressure increase will occur and the container may burst. This from the chemical 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 may include the following materials: decomposition products carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable training. **Special protective** : Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	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.

## 7. Handling and storage

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. 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	: Do not store above the following temperature: 50°C (122°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.

## 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits
Manium dioxide (nanoparticle	·)	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust OEL-M: 4 mg/m <sup>3</sup> 8 hours. Form: Total dust OEL-M: 0.3 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: nanoparticle
Crystalline-quartz		Japan Society for Occupational Health (Japan, 5/2018).
Carbon black		OEL-C: 0.03 mg/m <sup>3</sup> Form: Respirable dust Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust
Methanol		OEL-M: 4 mg/m <sup>3</sup> 8 hours. Form: Total dust Japan Society for Occupational Health (Japan, 5/2018). Absorbed through skin. OEL-M: 260 mg/m <sup>3</sup> 8 hours. OEL-M: 200 ppm 8 hours. ISHL (Japan, 2/2019). TWA: 200 ppm 8 hours.
Recommended monitoring procedures	the ventilation or other control measure protective equipment. Reference shou	ay be required to determine the effectiveness of es and/or the necessity to use respiratory Id be made to appropriate monitoring standards. ents for methods for the determination of
Appropriate engineering controls		s, gas, vapor or mist, use process enclosures, eering controls to keep worker exposure to mmended or statutory limits.
Environmental exposure controls	they comply with the requirements of e	cess equipment should be checked to ensure nvironmental protection legislation. In some eering modifications to the process equipment to acceptable levels.
ndividual protection measu	res	
Hygiene measures	eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should no	t to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety
Eye protection	: Safety glasses with side shields.	
Skin protection Hand protection	be worn at all times when handling che this is necessary. Considering the para check during use that the gloves are st should be noted that the time to breakt	complying with an approved standard should emical products if a risk assessment indicates ameters specified by the glove manufacturer, ill retaining their protective properties. It hrough for any glove material may be different
	for different glove manufacturers. In the substances, the protection time of the g	e case of mixtures, consisting of several

## 8. Exposure controls/personal protection

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Gloves	: 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	: 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.

## 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Gray.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 97.22°C (207°F)
Evaporation rate	: 0.7 (butyl acetate = 1)
Vapor pressure	:1.6 kPa (12 mm Hg) [room temperature]
Relative density	: 1.38
Solubility	: Insoluble in the following materials: cold water.
Viscosity	: Not Applicable

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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.	

### 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
itanium dioxide (nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-
Silica (silicon dioxide containing crystalline and amorphous)	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Carbon black	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

#### Irritation/Corrosion

Not available.

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

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

Name	Category	Route of exposure	Target organs
Silica (silicon dioxide containing crystalline and amorphous)	Category 3	Not applicable.	Respiratory tract irritation
Methanol	Category 1	Not determined	central nervous system (CNS), eyes and systemic toxicity
	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

## 11. Toxicological information

Name	Category	Route of exposure	Target organs
Itanium dioxide (nanoparticle)	Category 1	Not determined	respiratory system
Silica (silicon dioxide containing crystalline and amorphous)	Category 1	Not determined	immune system, kidneys and respiratory system
Crystalline-quartz	Category 1	Not determined	immune system, kidneys and respiratory system
Carbon black Methanol	Category 1 Category 1	Not determined Not determined	respiratory system central nervous system (CNS) and eyes

**Aspiration hazard** 

Not available.

Information on the likely	: Not available.
routes of exposure	

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

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

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effe	<u>b</u>	
General	Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to low levels.	very
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity	No known significant effects or critical hazards.	
Developmental effects	No known significant effects or critical hazards.	
Fertility effects	No known significant effects or critical hazards.	

## 11. Toxicological information

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SX 700 RAL 7038 GRAY RESIN	55685.7	N/A	N/A	N/A	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3125	N/A	N/A	N/A	N/A
Carbon black	N/A	2500	N/A	N/A	N/A
Methanol	500	15800	64000	N/A	N/A

#### Other 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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Emits toxic fumes when heated.

### **12. Ecological information**

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#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	LC50 11.5 mg/l	Fish	96 hours
titanium dioxide (nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Silica (silicon dioxide containing crystalline and amorphous)	Acute LC50 >10000 mg/l	Fish	96 hours
Methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

#### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Methanol	-0.77	-	low

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

### 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.

### 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

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

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.

### 15. Regulatory information

#### **Fire Service Law**

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class III petroleums	II	Flammable - Keep Fire Away	2000 L

#### Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

#### **ISHL**

#### Use of specified chemical substances

Page: 10/12 Japan

### 15. Regulatory information

None of the components are listed.

#### Label requirements

Ingredient name	%		Reference number
Titanium(IV) oxide	≤0.30	Listed	165-2
	≥10 - ≤25	Listed	191
	≤0.30	Listed	165-2

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Methanol	<0.30	Listed	560
Carbon black	≤0.30	Listed	130
Crystalline silica	≤0.30	Listed	165-2
Titanium(IV) oxide	≥10 - ≤25	Listed	191
Crystalline silica	≤0.30	Listed	165-2

#### **Carcinogen**

None of the components are listed.

#### **Mutagen**

None of the components are listed.

Corrosive liquid	1	Not listed
Occupational Safety and Health Law	:	Not available.
Prevention of Tetraalkyl Lead Poisoning	:	Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	:	Not listed
Harmful Substances, Prohibited for Manufacturing	1	Not listed
Dangerous Substances	:	Not listed
Lead regulation	1	Not listed
Organic solvents poisoning prevention	:	Not available.

#### **Poisonous and Deleterious Substances**

None of the components are listed.

#### Chemical Substances Control Law (CSCL)

Ingredient name	%		Reference number
Methanol	0.10671	Priority assessment	90

High Pressure Gas Control : Not available. Law

#### **Explosives Control Law**

None of the components are listed.

### 15. Regulatory information

Law Concerning Prevention : Not available. of Pollution of the Ocean and Maritime Disaster

#### Maritime Safety Law

#### Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

JSOH Carcinogen	: 🗭 roup 1
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

### **16. Other information**

<u>History</u>	
Date of issue/Date of revision	: 17 February 2020
Date of previous issue	: 12/4/2019
Version	: 2.04
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>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.