

SAFETY DATA SHEET



Date of issue/Date of revision 11 April 2020

Version 3.03

Section 1. Identification		
Product name	: 4-4220XI PPG PAINTS PERMA-CRETE EXTERIOR CONCRETE COATINGS LATEX MIDTONE TINT BASE	
Product code	: 00395809	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of the substance or mixture and uses advised against		
Product use	: Consumer applications, 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) 01-800-00-21-400 or + 52 55 5559 1588 (Mexico)	
Technical Phone Number	: 1-800-441-9695 (8:00 am to 5:00 pm EST)	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 20.1% (Oral), 22.3% (Dermal), 20.1% (Inhalation)
	This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).
GHS label elements	

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Section 2. Hazards identification

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Hazard pictograms



Signal word	: Warning
Hazard statements	: Suspected of causing cancer.
Precautionary statements	
General	 Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
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.
Response	: IF exposed or concerned: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Contains isothiazolinones. May cause allergic reaction. Emits toxic fumes when heated.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: 4-4220XI PPG PAINTS PERMA-CRETE EXTERIOR CONCRETE COATINGS LATEX MIDTONE TINT BASE

Ingredient name	%	CAS number
1-(2-butoxy-1-methylethoxy)propan-2-ol	≥5.0 - ≤10 ≥1.0 - ≤5.0 ≥1.0 - ≤5.0	13463-67-7 29911-28-2 1332-58-7

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.

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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	 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
nptoms
: No specific data.
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Indication of immediate me	dical 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.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon 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".
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 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.

Section 7. Handling and storage

Precautions for safe handling

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Section 7. Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.
Special precautions	: If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
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	: Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits				
titanium dioxide	OSHA PEL (United States, 5/2018).				
	TWA: 15 mg/m ³ 8 hours. Form: Total dust				
	ACGIH TLV (United States, 3/2019).				
	TWA: 10 mg/m³ 8 hours.				
1-(2-butoxy-1-methylethoxy)propan-2-ol	None.				
Kaolin	ACGIH TLV (United States, 3/2019).				
	TWA: 2 mg/m ³ 8 hours. Form: Respirable				
	fraction				
	OSHA PEL (United States, 5/2018).				
	TWA: 5 mg/m ³ 8 hours. Form: Respirable				
	fraction				
	TWA: 15 mg/m ³ 8 hours. Form: Total dust				
Key to abbreviatio	ns				
A = Acceptable Maximum Peak	S = Potential skin absorption				
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization				
C = Ceiling Limit	SS = Skin sensitization				
F = Fume PEL = Internal Permissible Exposure Limit	STEL = Short term Exposure limit values TD = Total dust				
SHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value				
R = Respirable	TWA = Time Weighted Average				
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Section 8. Exposure controls/personal protection

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>	
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/face 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.
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.

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Section 9. Physical and chemical properties

Appearance

Physical state Color	Liquid. Various	
Odor	Alcohol-like.	
Odor threshold	Not available.	
рН	8.5	
Melting point	Not available.	
Boiling point	100°C (212°F)	
Flash point	Closed cup: Not applicable. [Product does not sustain combus	stion.]
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Evaporation rate	0.05 (butyl acetate = 1)	
Vapor pressure	3.3 kPa (25 mm Hg) [room temperature]	
Vapor density	Not available.	
Relative density	1.12	
Density(lbs / gal)	9.35	
Solubility	Partially soluble in the following materials: cold water.	
Partition coefficient: n-	Not available.	
octanol/water		
Viscosity	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)	
Volatility	7 3% (v/v), 64.663% (w/w)	
% Solid. (w/w)	35.337	

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.

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Section 10. Stability and reactivity

Hazardous decomposition products

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure		
ti tanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours		
	LD50 Dermal	Rabbit	>5000 mg/kg	-		
	LD50 Oral	Rat	>5000 mg/kg	-		
1-(2-butoxy-1-methylethoxy) propan-2-ol	LC50 Inhalation Dusts and mists	Rat	5.4 mg/l	4 hours		
	LD50 Dermal	Rat	>2000 mg/kg	-		
	LD50 Oral	Rat	4.05 g/kg	-		
Kaolin	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours		
	LD50 Oral	Rat	>5000 mg/kg	-		
Conclusion/Summary	: There are no data available on t	he mixture itself.	•			
Irritation/Corrosion						
Conclusion/Summary						
Skin	: There are no data available on t	he mixture itself.				
Eyes	: There are no data available on t	he mixture itself.				
Respiratory	: There are no data available on t	here are no data available on the mixture itself.				
<u>Sensitization</u>						
Conclusion/Summary						
Skin	: There are no data available on t	he mixture itself.				
Respiratory	: There are no data available on t	he mixture itself.				
Mutagenicity						
Conclusion/Summary	: There are no data available on t	he mixture itself.				
Carcinogenicity						
Conclusion/Summary	: There are no data available on t	he mixture itself.				
Classification						
Product/ingredient name	OSHA IARC NTP					

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-

IARC: 1, 2A, 2B, 3, 4
NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen
OSHA: +
Not listed/not regulated: -

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Conclusion/Summary	: There are no data available on the mixture itself.		
Teratogenicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Reproductive toxicity			

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Section 11. Toxicological information

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Targ	et	org	ans

: Contains material which causes damage to the following organs: eyes. Contains material which may cause damage to the following organs: lungs, liver, upper

respiratory tract, central nervous system (CNS), stomach.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion Over-exposure signs/symptoms Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data. Delayed and immediate effects and also chronic effects from short and long term exposure **Conclusion/Summary** : There are no data available on the mixture itself. Contains isothiazolinones. May cause allergic reaction. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). If splashed in the eyes, the liquid may cause irritation and reversible damage. 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. Short term exposure **Potential immediate** There are no data available on the mixture itself. effects : There are no data available on the mixture itself. Potential delayed effects Long term exposure There are no data available on the mixture itself. **Potential immediate** effects : There are no data available on the mixture itself. **Potential delayed effects**

Potential chronic health effects

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Section 11. Toxicological information

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General	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing 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.
Numerical measures of tox	<u>city</u>

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)		(vapors)	Inhalation (dusts and mists) (mg/ I)
4-4220XI PPG PAINTS PERMA-CRETE EXTERIOR CONCRETE COATINGS LATEX MIDTONE TINT BASE 1-(2-butoxy-1-methylethoxy)propan-2-ol	147216.9 4050	N/A N/A	N/A N/A	N/A 5.4

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide 1-(2-butoxy-1-methylethoxy) propan-2-ol	Acute LC50 >100 mg/l Fresh water Acute LC50 841 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
1-(2-butoxy-1-methylethoxy) propan-2-ol	OECD 302B	96 % - Readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
1-(2-butoxy-1-methylethoxy) propan-2-ol	-		-		Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1-(2-butoxy-1-methylethoxy) propan-2-ol	1.5	-	low

Mobility in soil

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Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

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

14. Transport information			
	DOT	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

- **DOT** : 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.

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Section 15. Regulatory information

United States

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

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : CARCINOGENICITY - Category 2

Composition/information on ingredients

Name	%	Classification
titanium dioxide 1-(2-butoxy-1-methylethoxy)	≥5.0 - ≤10 ≥1.0 - ≤5.0	CARCINOGENICITY - Category 2 EYE IRRITATION - Category 2A
propan-2-ol		

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 : 0

(*) - 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.)

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Section 16. Other information

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.