Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - United Kingdom: Northern Ireland

# **SAFETY DATA SHEET**



INFRALIT PE 8312-04 - All variants

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1	Product	identifier
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Product name

: INFRALIT PE 8312-04 - All variants

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use**: Paint.

### 1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com responsible for this SDS

### **National contact**

Teknos Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

### **1.4 Emergency telephone number**

National advisory body/Poison Centre

Telephone number : NHS: 111

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	:	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	P273 - Avoid release to the environment.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Contains zinc di(benzothiazol-2-yl) disulphide. May produce an allergic reaction. Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	

## **SECTION 2: Hazards identification**

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

: May form explosible dust-air mixture if dispersed.

not result in classification

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

:	Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
zinc di(benzothiazol-2-yl) disulphide	REACH #: 01-2119493020-50 EC: 205-840-3 CAS: 155-04-4	<1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

## 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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## **SECTION 4: First aid measures**

4.3 Indication of any immediate medical attention and special treatment needed			
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

		-
5.1 Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	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 combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters		
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised 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".
6.2 Environmental precautions	:	Avoid dispersal of spilt 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.
6.3 Methods and material for	СО	ntainment and cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

### **SECTION 6: Accidental release measures**

6.4 Reference to other	
sections	

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 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 release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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.

### 7.2 Conditions for safe storage, including any incompatibilities

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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific	end	use(	s)
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Recommendations: Not available.Industrial sector specific: Not available.solutions: Not available.

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name No exposure limit value known.		Exposure limit values	
Recommended monitoring : procedures	atmosphere or l of the ventilation protective equip the following: E the assessment limit values and atmospheres - ( of exposure to o (Workplace atm for the measure	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory oment. Reference should be made to monitoring standards, such as suropean Standard EN 689 (Workplace atmospheres - Guidance for t of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be	
DNELs/DMELs			

Product/ingredient name	Туре	Exposure	Value	Population	Effects
titanium dioxide	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	700 mg/kg bw/day	General population	Systemic
zinc di(benzothiazol-2-yl) disulphide	DNEL	Short term Oral	3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	5.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	12 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	21 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	1.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.9 mg/m <sup>3</sup>	Workers	Systemic

### **PNECs**

No PNECs available

8.2 Exposure controls Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</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 eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of 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.
	Recommendations :Wear gloves according to EN374 to protect against skin effects from powders.
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
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.
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## SECTION 8: Exposure controls/personal protection

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Respiratory protection	<ul> <li>Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.</li> <li>Filter type: P 2</li> </ul>
	Fillel type. F 2
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.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	4	Solid.
Colour	4	Various
Odour	4	Slight
Odour threshold	4	Not available.
Melting point/freezing point	4	Not available.
Initial boiling point and boiling range	1	Not available.
Flammability	1	Not available.
Lower and upper explosion limit	1	Lower: Not applicable. Upper: Not applicable.
Flash point	1	Not applicable.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	:	Not available.
рН	1	Not available.
Viscosity	1	Not applicable.
Solubility(ies)	1	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	Not available.
Relative density	:	Not available.
Density	1	1.5 g/cm <sup>3</sup>
Vapour density	1	Not applicable.
Explosive properties	1	Not available.
Oxidising properties	1	Not available.
Particle characteristics		
Median particle size	÷	40 µm

## **SECTION 10: Stability and reactivity**

10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	: The product is stable.
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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## **SECTION 10: Stability and reactivity**

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure		
zinc di(benzothiazol-2-yl) disulphide	LD50 Oral	Rat	540 mg/kg	-		
Conclusion/Summary       : Based on available data, the classification criteria are not met.         Acute toxicity estimates       Conclusion/Summary						
Route			ATE valu	e		

Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	·
Sensitisation					
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	not met.	
Mutagenicity					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
<b>Carcinogenicity</b>					
	carcinogenic hazard of this produent of particle clearance mechani		•	le dust is inhale	ed in quantities
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Teratogenicity					
Conclusion/Summary	· Based on available data the	classification o	ritoria ara	not mot	

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

#### Information on likely routes : Not available. 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	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

## **SECTION 11: Toxicological information**

Symptoms related to the physical	sical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
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	ects
Not available.	
<b>Conclusion/Summary</b>	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

### 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** 

Not available.

### 11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours

**Conclusion/Summary** 

: Harmful to aquatic life with long lasting effects.

### **12.2 Persistence and degradability**

**Conclusion/Summary** : This product has not been tested for biodegradation.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
zinc di(benzothiazol-2-yl) disulphide	5.02	<8	low

### 12.4 Mobility in soil

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## **SECTION 12: Ecological information**

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product** Methods of disposal : The generation of waste should be avoided or minimised 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. **Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste. **European waste** : 080201 catalogue (EWC) **Packaging Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. 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 **Special precautions** 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

				1474
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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 14: Transport information**

SECTION 15: Regulat	tory information
15.1 Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907	
	ices subject to authorisation
Annex XIV	
None of the components a	re listed.
Substances of very high o	<u>concern</u>
None of the components a	re listed.
Annex XVII - Restrictions	:
on the manufacture,	
placing on the market and use of certain	
dangerous substances,	
mixtures and articles	
Other EU regulations	
Industrial emissions (integrated pollution	: Not listed
prevention and control) -	
Air	
Industrial emissions	: Not listed
(integrated pollution prevention and control) -	
Water	
Ozone depleting substance	es (1005/2009/EU)
Not listed.	
Prior Informed Consent (PI	C) (649/2012/EU)
Not listed.	
Persistent Organic Polluta	nts
Not listed.	
Seveso Directive	
This product is not controlled	under the Seveso Directive.
International regulations	
Chemical Weapon Conventi	on List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention on P	ersistent Organic Pollutants
Not listed.	
	rior Informed Concert (PIC)
Rotterdam Convention on P Not listed.	nor mormed consent (FIC)
UNECE Aarhus Protocol on	POPs and Heavy Metals
Not listed.	
15.2 Chomical safety	. This product contains substances for which Chamical Safety Accessments or
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments ar required.

still

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative</li> </ul>

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Aquatic Chronic 3, H412	Calculation method	

Full text of abbreviated H statements

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Carc. 2 Skin Sens. 1	onic 1 LONG-TERM (CHRONIĆ) AQUATIC HAZARD - Ca onic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca CARCINOGENICITY - Category 2			ory 1
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### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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