## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

## **SAFETY DATA SHEET**



INFRALIT PE 8315-13 - All variants

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

#### 1.1 Product identifier Product name

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**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 (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

## **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

<u>Classification according to UK CLP/GHS</u> Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	lo signal wor	d.
Hazard statements	lo known sigi	nificant effects or critical hazards.
Precautionary statements		
Prevention	lot applicable	
Response	lot applicable	
Storage	lot applicable	
Disposal	lot applicable	
Supplemental label elements		eet available on request. ardous respirable dust may be formed when used. Do not breathe
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	lot applicable	P

#### 2.3 Other hazards

## **SECTION 2: Hazards identification**

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

2 Mixture

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

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Product/ingredient name	<b>Identifiers</b>	%	Classification	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤10	Carc. 2, H351 (inhalation)	[1] [*]
Aluminium powder (stabilized)	REACH #: 01-2119529243-45 EC: 231-072-3 CAS: 7429-90-5 Index: 013-001-00-6	≤5	Flam. Sol. 1, H228 Water-react. 2, H261	[2]
			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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] 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.

containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within

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

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

4.1 Description of first aid m	neasures
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. Get medical attention if symptoms occur. 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	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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. Get medical attention if symptoms occur.
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	:	No specific fire or explosion hazard.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur 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.

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

6.1 Personal precautions, pro	tective 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).
6.3 Methods and material for	containment 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. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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.
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## 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).
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	

## SECTION 8: Exposure controls/personal protection

8.1	Control	parameters	S
0	cunatio		ro limite

<u> </u>	Coupational exposure mints	
Aluminium powder (stabilized)		EH40/2005 WELs (United Kingdom (UK), 1/2020).
		TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable dust
		TWA: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable dust
R	Recommended monitoring :	If this product contains ingredients with exposure limits, personal, work

place atmosphere or biological monitoring may be required to determine the effectiveness procedures 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.

#### **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
Aluminium powder (stabilized)	DNEL	Long term Inhalation	3.72 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	3.72 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	3.95 mg/ kg bw/day	General population	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 measures

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

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.
	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	<ul> <li>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.</li> </ul>
Respiratory protection	: 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.
	Filter type: P 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	: Solid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:
Ingredient name	°C

Ingredient name		°C	°F	Method		
Aluminium powder (stabilized)		2327	4220.6			
Flammability (solid, gas)	ilable.	<b>!</b>				
Upper/lower flammability or explosive limits		Not applicable. Not applicable.				
Flash point	: Closed	cup: >100°C (>	•212°F)			
Auto-ignition temperature	: Not app	licable.				
Decomposition temperature	: Not ava	ilable.				
рН	: Not ava	ilable.				
Viscosity	: Not app	licable.				
Solubility(ies)	:					
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## **SECTION 9: Physical and chemical properties**

Not available.

Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	Not available.
Relative density	1	Not available.
Density	1	1.5 g/cm³
Vapour density	:	Not applicable.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
Particle characteristics		
Median particle size	1	40 µm

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredi	ients.		
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occu	ur.		
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 produced should not be produced.	cts		

## **SECTION 11: Toxicological information**

11.1 Information on toxicolo	gical effects	
Acute toxicity		
<b>Conclusion/Summary</b> : Based on available data, the classification criteria are not met.		
Acute toxicity estimates		
	Route	ATE value
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.	
<u>Sensitisation</u>					
Conclusion/Summary	: Based on available data, the classification criteria are not met.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Based on available data,	the classification c	riteria are	not met.	
Carcinogenicity					
It has been observed that the oleading to significant impairme				e dust is inhaled	d in quantities
Conclusion/Summary	: Based on available data,	the classification c	riteria are	not met.	

**Reproductive toxicity** 

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<b>SECTION 11: Toxico</b>	logical information
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Specific target organ toxici	t <u>y (single exposure)</u>
Not available.	
Specific target organ toxici	t <u>y (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on likely routes of exposure	: Not available.
Potential acute health effects	<u>5</u>
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.
Symptoms related to the phy	vsical, 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.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	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.
Other information	: Not available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 µg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	96 hours
Aluminium powder (stabilized)	Acute LC50 38000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 120 µg/l Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Embryo	96 hours
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Coontail - Ceratophyllum demersum	3 days

**Conclusion/Summary** 

: Based on available data, the classification criteria are not met.

## **12.2 Persistence and degradability**

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

#### **12.3 Bioaccumulative potential**

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: 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 Other adverse effects : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

13.1 Waste treatment meth	ods
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	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>
European waste catalogue (EWC)	: 080201
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.
Special precautions	: This material and its container must be disposed of in a safe way. 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 ADR/RID ADN** IMDG ΙΑΤΑ 14.1 UN 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 No. No. No. No. **Environmental** hazards

# **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.

#### **14.7 Transport in bulk** : Not relevant/applicable due to nature of the product. according to IMO instruments

## SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

## UK (GB) /REACH

## Annex XIV - List of substances subject to authorisation

## Annex XIV

None of the components are listed.

## Substances of very high concern

None of the components are listed.

## Ozone depleting substances

Not listed.

## Prior Informed Consent (PIC)

Not listed.

#### Persistent Organic Pollutants Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

## Seveso Directive

This product is not controlled under the Seveso Directive.

## EU regulations

Industrial emissions : Listed (integrated pollution prevention and control) -Air

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## **SECTION 15: Regulatory information**

Industrial emissions (integrated pollution prevention and control) Water	- Listed
International regulations	
Chemical Weapon Conve	ention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention of Not listed.	n Persistent Organic Pollutants
Rotterdam Convention o	n Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol	on POPs and Heavy Metals
Not listed.	
15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments are still

assessment	required.			
SECTION 16: Other information				

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

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number</li> </ul>
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Not classified.

#### Full text of abbreviated H statements

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H351	Suspected of causing cancer.

#### Full text of classifications

Carc. 2 Flam. Sol. 1 Water-react. 2	CARCINOGENICITY - Category 2 FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES WHICH IN CONTACT WITH WATER EMIT FLAMMABLE GASES - Category 2		
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Notice to reader			

#### Notice to reader

## **SECTION 16: Other information**

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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