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

SAFETY DATA SHEET



INFRALIT EP/PE 8081-00 - 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 Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Centre: 01 809 2566

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Signal word : No signal word. **Hazard statements** : No known significant effects or critical hazards. **Precautionary statements Prevention** : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. **Supplemental label** : Safety data sheet available on request. Warning! Hazardous respirable dust may be formed when used. Do not breathe elements dust. **Annex XVII - Restrictions** t on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

2.3 Other hazards

articles

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: 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.

Other hazards which do 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	≥25 - ≤50	Carc. 2, H351 (inhalation)	-	[1] [*]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361d	-	[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. Get medical attention if symptoms occur.
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.

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments No specific treatment. 2 SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing : None known. media 5.2 Special hazards arising from the substance or mixture Hazards from the : No specific fire or explosion hazard. substance or mixture **Hazardous combustion** Decomposition products may include the following materials: products carbon dioxide carbon monoxide metal oxide/oxides **5.3 Advice for firefighters Special protective actions** : 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 for fire-fighters 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	ective 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.
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).	
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.	S

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)

Recommendations

: Not available.

Industrial sector specific solutions

ific : Not available.

SECTION 8: Exposure controls/personal protection

required.

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

occupational exposure mints		
Product/ingredient name	Exposure limit values	
No exposure limit value known.		
procedures atmosphere or the of the ventilation protective equip the following: E the assessment limit values and atmospheres - 0	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 ment. Reference should be made to monitoring standards, such as uropean Standard EN 689 (Workplace atmospheres - Guidance for c 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	

(Workplace atmospheres - General requirements for the performance of procedures

documents for methods for the determination of hazardous substances will also be

for the measurement of chemical agents) Reference to national guidance

DNELs/DMELs

Туре	Exposure	Value	Population	Effects
DNEL	Long term	10 mg/m ³	Workers	Local
DNEL	Long term Oral	700 mg/kg	General	Systemic
DNEL	Short term Oral	bw/day 50 mg/kg	population General	Systemic
DNEL	Short term Dermal	bw/day 83.3 mg/	population General	Systemic
		kg bw/day	population	Systemic
		kg bw/day		
DNEL	Short term Inhalation	925 mg/m³	General population	Systemic
DNEL	Short term	3037.3 mg/	Workers	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term Inhalation DNELDNELLong term OralDNELShort term OralDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term Inhalation	DNELLong term Inhalation10 mg/m³DNELLong term Oral700 mg/kg bw/dayDNELShort term Oral50 mg/kg bw/dayDNELShort term Dermal83.3 mg/ kg bw/dayDNELShort term Dermal138.8 mg/ kg bw/dayDNELShort term Dermal138.8 mg/ kg bw/dayDNELShort term925 mg/m³ Inhalation	DNELLong term Inhalation10 mg/m³WorkersDNELLong term Oral700 mg/kg bw/dayGeneral populationDNELShort term Oral50 mg/kg

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	Inhalation	m ³		
DNE		0.34 mg/ kg bw/day	General population	Systemic
DNE	L Long term Dermal	0.34 mg/ kg bw/day	General population	Systemic
DNE	L Long term Inhalation	0.58 mg/m ³	General population	Systemic
DNE	L Long term Dermal	0.94 mg/ kg bw/day	Workers	Systemic
DNE	Long term Inhalation	3.3 mg/m ³	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airbor contaminants.	rne
Individual protection meas	<u>res</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 cloth 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 ris assessment indicates this is necessary to avoid exposure to liquid splashes, mis gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses w side-shields.	ts,
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard sho be worn at all times when handling chemical products if a risk assessment indica 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	: 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.	٢
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.	е
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 importa 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 proces 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

Appearance	
Physical state	: Solid.
Colour	: Various

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SECTION 9: Physical and chemical properties

OEOHON 5. I Hysical al	I.G.	chemical prope
Odour	:	Slight
Odour threshold	1	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit	:	Lower: Not applicable. Upper: Not applicable.
Flash point	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
рН	:	Not available.
Viscosity	:	Not applicable.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	Not available.
Relative density	:	Not available.
Density	:	1.7 g/cm ³
Vapour density	:	Not applicable.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
Particle characteristics		
Median particle size	:	40 µm

SECTION 10: Stabilit	ty and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
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 occur.
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	Re	esult	Species	Dose	E	xpos	ure
propylidynetrimethanol	LD50 Oral		Rat	14000 mg/kg	-		
Conclusion/Summary Acute toxicity estimates	Based on ava	ilable data, the cla	ssification criter	ia are not met.			
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SECTION 11: Toxicological information

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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.	·	
Sensitisation						
Conclusion/Summary	: Based on available data, the	classification c	riteria are	e not met.		
<u>Mutagenicity</u>						
Conclusion/Summary	: Based on available data, the	classification c	riteria are	e not met.		
Carcinogenicity						
	carcinogenic hazard of this produent of particle clearance mechanic			le dust is inhale	ed in quantities	
Conclusion/Summary	: Based on available data, the	classification c	riteria are	e not met.		
Reproductive toxicity						
Conclusion/Summary	: Based on available data, the	classification c	riteria are	e not met.		
Teratogenicity						
Conclusion/Summary	: Based on available data, the	classification c	riteria are	e not met.		
Specific target organ toxicit Not available.	<u>y (single exposure)</u>					
<u>Specific target organ toxicit</u> Not available.	<u>y (repeated exposure)</u>					
Aspiration hazard						
Not available.						
Information on likely routes of exposure	: Not available.					
Potential acute health effects						
Eye contact	: No known significant effects of					
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	Symptoms related to the physical, 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 effec	ts as well as chronic effects fro	om short and l	long-tern	<u>n exposure</u>		
<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.					
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SECTION 11: Toxicological information

Potential chronic health effects

Not available.

Conclusion/Summary	: 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
propylidynetrimethanol	Acute EC50 13000000 μg/l Fresh water Acute LC50 14400000 μg/l Marine	Daphnia - Daphnia magna Fish - Cyprinodon variegatus	48 hours 96 hours
	water		
Conclusion/Summary	: Based on available data, the classification	ation criteria are not met.	

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
propylidynetrimethanol	-0.47	<1	low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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 method	S
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	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
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.

	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.

14.7 Maritime transport in : Not relevant/applicable due to nature of the product. bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (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.

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SECTION 15: Regulatory information

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15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.
Not listed.	
UNECE Aarhus Protocol on	POPs and Heavy Metals
Rotterdam Convention on F Not listed.	Prior Informed Consent (PIC)
Stockholm Convention on F Not listed.	Persistent Organic Pollutants
Not listed.	
Montreal Protocol	
	ion List Schedules I, II & III Chemicals
International regulations	
<u>Seveso Directive</u> This product is not controlled	d under the Seveso Directive.
Persistent Organic Polluta Not listed.	unts
Prior Informed Consent (P Not listed.	<u>IC) (649/2012/EU)</u>
Ozone depleting substance Not listed.	tes (1005/2009/EU)
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Other EU regulations	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	•

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 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

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

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SECTION 16: Other information

Not classified.

Full text of abbreviated H statements

H351	Suspected of	ected of causing cancer.					
H361d	Suspected of	cted of damaging the unborn child.					
Full text of class	ifications [Cl	_P/GHS]					
Carc. 2 Repr. 2	CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 2						
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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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