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

SAFETY DATA SHEET



INFRALIT PE 8317-09 - All variants

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

1.1 Product identifier

Product name : INFRALIT PE 8317-09 - 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

Peknos 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 : In an emergency, call 112

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 elements	:	Contains zinc di(benzothiazol-2-yl) disulphide. May produce an allergic reaction. Safety data sheet available on request. 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	:	

2.3 Other hazards

articles

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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.

Other hazards which do : May form explosible dust-air mixture if dispersed. **not result in classification**

SECTION 3: Composition/information on ingredients

: Mixture		
edient name Identifiers	% Classification Specific Conc. Limits, M-factor and ATEs	s ^{Type}
de REACH #: 01-211948937 EC: 236-675-5 CAS: 13463-67	 ≤3 Carc. 2, H351 - (inhalation) 	[1] [*]
thiazol-2-yl) REACH #: 01-211949302 EC: 205-840-3 CAS: 155-04-4	 <0.25 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared M [Acute] = 1 M [Chronic] = 1 	[1]
CAS: 155-04-4	See Section 16 for the full text of the H	

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>

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. 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	1	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

Ū		
5.1 Extinguishing media		
Suitable extinguishing media	Jse an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	lone known.	
5.2 Special hazards arising f	he substance or mixture	
Hazards from the substance or mixture	lo specific fire or explosion hazard.	
Hazardous combustion products	Secomposition products may include the following materials: arbon dioxide arbon monoxide itrogen oxides sulfur oxides netal 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 incide here is a fire. No action shall be taken involving any personal risk or without suitable training.	ent if
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained preathing apparatus (SCBA) with a full face-piece operated in positive pressure node. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection themical incidents.)

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	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 environmen pollution (sewers, waterways, soil or air).			
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. 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.			

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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 ha	Indling
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)

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	Exposure limit values	
No exposure limit value known.		
procedures atmospil of the very protective the follo the asse limit value atmospil of expose (Workpil for the r	duct contains ingredients with exposure limits, personal, workplace ere or biological monitoring may be required to determine the effectiveness utilation or other control measures and/or the necessity to use respiratory equipment. Reference should be made to monitoring standards, such as ing: European Standard EN 689 (Workplace atmospheres - Guidance for sment of exposure by inhalation to chemical agents for comparison with es and measurement strategy) European Standard EN 14042 (Workplace eres - Guide for the application and use of procedures for the assessment ire to chemical and biological agents) European Standard EN 482 ce atmospheres - General requirements for the performance of procedures easurement of chemical agents) Reference to national guidance ts for methods for the determination of hazardous substances will also be	

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
inanium dioxide	DNEL	Long term Inhalation	10 mg/m ³	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 ³	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 ³	Workers	Systemic
	DNEL	Long term Oral	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m ³	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 ³	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls Appropriate engineering : Good general ventilation should be sufficient to control worker exposure to airborne controls contaminants. Individual protection measures : Wash hands, forearms and face thoroughly after handling chemical products, **Hygiene measures** 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** : 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** 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 Date of issue/Date of revision :07/12/2022 Date of previous issue : 16/09/2021 Version : 2 5/12 INFRALIT PE 8317-09 - All variants Label No :#3266

SECTION 8: Exposure controls/personal protection

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

Appearance	
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	°F	Method
Muminium powder (stabilized)	2327	4220.6	

Flammability	t available.	
Lower and upper explosion limit	ver: Not applica per: Not applica	
Flash point	sed cup: >100	°C (>212°F)
Auto-ignition temperature	t applicable.	
Decomposition temperature	t available.	
рН	t available.	
Viscosity	t applicable.	
Solubility(ies)		
Not available.		
Solubility in water	t available.	
Partition coefficient: n-octanol/ water	t applicable.	
Vapour pressure	t available.	
Relative density	t available.	
Density	g/cm³	
Vapour density	t applicable.	
Explosive properties	t available.	
Oxidising properties	t available.	
Particle characteristics		
Median particle size	μm	

SECTION 10: Stability 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	: Under normal conditions of storage and use, hazardous reactions will not occur.
hazardous reactions	

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
Żínc di(benzothiazol-2-yl) disulphide	LD50 Oral	Rat	540 mg/kg	-
Conclusion/Summary	Based on available data, the cla	assification criter	ia 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 c	riteria are	not met.	
<u>Mutagenicity</u>					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Carcinogenicity					
	carcinogenic hazard of this prod ent of particle clearance mechan			le dust is inhale	ed in quantities
Conclusion/Summary	: Based on available data, the	classification o	riteria are	not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
<u>Teratogenicity</u>					
Conclusion/Summary	: Based on available data, the	e classification c	riteria are	not met.	
<u>Specific target organ toxicit</u> Not available.	<u>y (single exposure)</u>				
Specific target organ toxicit	<u>y (repeated exposure)</u>				
Not available.					
Not available. Aspiration hazard	: Not available.				
Not available. <u>Aspiration hazard</u> Not available. nformation on likely routes					
Not available. <u>Aspiration hazard</u> Not available. nformation on likely routes f exposure		or critical haza	rds.		
Not available. Aspiration hazard Not available. nformation on likely routes f exposure cotential acute health effects Eye contact	i				
Not available. <u>Aspiration hazard</u> Not available. nformation on likely routes of exposure Potential acute health effects	: No known significant effects	or critical haza	rds.		

SECTION 11: Toxicological information

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 effects 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	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutaganiaitu	: No known significant effects or critical hazards.
Mutagenicity	

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	: Based on available data, the classi	fication 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
Znc di(benzothiazol-2-yl) disulphide	5.02	<8	low

12.4 Mobility in soil

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

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SECTION 12: Ecological information

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. Within the present knowledge of the supplier, this product is not regarded as Hazardous waste ÷. hazardous waste, as defined by EU Directive 2008/98/EC. : 080201 **European waste** 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. Empty containers **Special precautions** 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	IATA
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.

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SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environ	•	•	ecific for the substance of	or mixture	
EU Regulation (EC) No. 1907/2 Annex XIV - List of substance		-			
Annex XIV	<u>es subject to</u>	autionsation			
None of the components are	listed.				
Substances of very high co None of the components are	<u>ncern</u>				
Annex XVII - Restrictions : on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Other EU regulations</u> Industrial emissions : (integrated pollution prevention and control) - Air	Listed	<u>U)</u>			
Prior Informed Consent (PIC) Not listed.	<u>) (649/2012/El</u>	(۱			
Persistent Organic Pollutants Not listed.	<u>S</u>				
Seveso Directive This product is not controlled u <u>National regulations</u> International regulations Chemical Weapon Convention Not listed.			<u>ls</u>		
Montreal Protocol Not listed.					
Stockholm Convention on Per Not listed.	<u>rsistent Orga</u> i	<u>nic Pollutants</u>			
Rotterdam Convention on Price Not listed.	or Informed C	onsent (PIC)			
UNECE Aarhus Protocol on Po Not listed.	<u>OPs and Heav</u>	<u>vy Metals</u>			
15.2 Chemical safety : assessment	This product required.	contains substances	for which Chemical Safety	Assessments	are still
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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 ELW attempent = CLP enpairin Mazard statement
	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] Not classified.

Full text of abbreviated H statements

⊮ 317	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.

Full text of classifications [CLP/GHS]

Aquatic Acute 1 Aquatic Chronic 1 Carc. 2 Skin Sens. 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 CARCINOGENICITY - Category 2 SKIN SENSITISATION - Category 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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