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

SAFETY DATA SHEET



TEKNOSHIELD 4015-00 - All variants

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

1.1 Product identifier

Product name : TEKNOSHIELD 4015-00 - 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 (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

Classification according to UK CLP/GHS 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	: 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 3-iodo-2-propynyl-butyl carbamate. May produce an allergic reaction. Safety data sheet available on request. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for dry film and in-can preservation: IPBC. Risk of skin sensitisation.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Product meets the criteria : Th for PBT or vPvB according vF 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 : None known. not result in classification

SECTION 3: Composition/information on ingredients

: Mixture

3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤5	Carc. 2, H351 (inhalation) See Section 16 for the full text of the H	[1] [*]
			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

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

: 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.
: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
: 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.
: No action shall be taken involving any personal risk or without suitable training.

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

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

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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	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products		Decomposition products may include the following materials: 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, protective equipment and emergency procedures			
For non-emergency personnel	action shall be taken involving any personal risk or without suitable training acuate surrounding areas. Keep unnecessary and unprotected personnel f tering. Do not touch or walk through spilt material. Put on appropriate pers otective equipment.	from	
For emergency responders	specialised clothing is required to deal with the spillage, take note of any ormation in Section 8 on suitable and unsuitable materials. See also the ormation in "For non-emergency personnel".		
6.2 Environmental precautions	oid dispersal of spilt material and runoff and contact with soil, waterways, di d sewers. Inform the relevant authorities if the product has caused environ llution (sewers, waterways, soil or air).		
6.3 Methods and material for containment and cleaning up			
Small spill	op leak if without risk. Move containers from spill area. Dilute with water ar if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry aterial and place in an appropriate waste disposal container. Dispose of via ensed waste disposal contractor.	/	
Large spill	op leak if without risk. Move containers from spill area. Prevent entry into so ter courses, basements or confined areas. Wash spillages into an effluent atment plant or proceed as follows. Contain and collect spillage with non- mbustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous d place in container for disposal according to local regulations (see Section spose of via a licensed waste disposal contractor. Note: see Section 1 for hergency contact information and Section 13 for waste disposal.	s earth	
6.4 Reference to other sections	e Section 1 for emergency contact information. e Section 8 for information on appropriate personal protective equipment. e 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)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters Occupational exposure limit No exposure limit value know		
Biological exposure indices No exposure indices known.		
Recommended monitoring procedures	:	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 No DNELs/DMELs available	-	
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 measu	res	2
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.
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SECTION 8: Exposure controls/personal protection

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	Recommendations : Wear suitable gloves tested to EN374.	
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm	
	Not recommended polyvinyl alcohol (PVA) gloves	
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 (spray application): A P	
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

Physical state: Liquid.Colour: VariousOdour: SlightOdour threshold: Not available.Melting point/freezing point: Not available.	<u>Appearance</u>	
Odour: SlightOdour threshold: Not available.Melting point/freezing point: Not available.	Physical state	: Liquid.
Odour threshold: Not available.Melting point/freezing point: Not available.	Colour	: Various
Melting point/freezing point : Not available.	Odour	: Slight
.	Odour threshold	: Not available.
	Melting point/freezing point	: Not available.
Initial boiling point and : boiling range	Initial boiling point and boiling range	:

Ingredient name		°C	°F	Method		
water		100	212			
Flammability (solid, gas)	: Not available.					
Upper/lower flammability or explosive limits	: Lower: Not applicable. Upper: Not applicable.					
Flash point	: Closed cup: >100°C (>212°F)					
Auto-ignition temperature	: Not available.					
Decomposition temperature	: Not available.					
pH	: 7.5 to	8.5				
Viscosity	: Not a	vailable.				
Solubility(ies) Not available.	:					
Solubility in water	: Not a	vailable.				

upility in water Partition coefficient: n-octanol/ : Not applicable. water

1

Vapour pressure

	V	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3						
Relative density	: Not	available.						
Density	: 1 g/	/cm³						
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SECTION 9: Physical and chemical properties

Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stabilit	and reactivity	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients	6.
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 toxicological effects

Acute toxicity

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

Acute toxicity estimates

Route	ATE value		
halation (dusts and mists)	306.42 mg/l		

Irritation/Corrosion

	1					
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 criteria are not met.						
Sensitisation						
Conclusion/Summary	onclusion/Summary : Based on available data, the classification criteria are not met.					
<u>Mutagenicity</u>						
Conclusion/Summary	: Based on available data, the c	Based on available data, the classification criteria are not met.				
Carcinogenicity						
	arcinogenic hazard of this product nt of particle clearance mechanis			e dust is inhaled	d in quantities	
Conclusion/Summary	: Based on available data, the c	lassification cri	teria are	not met.		
Reproductive toxicity						

Specific target organ toxi	city (single exposure)
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity	

<u>Specific target organ toxicity (repeated exposure)</u> Not available.

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SECTION 11: Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
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.

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.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
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.

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 - Water flea -48 hours Ceriodaphnia dubia - Neonate Acute LC50 6.5 mg/l Fresh water Daphnia - Water flea - Daphnia 48 hours pulex - Neonate Acute LC50 >1000000 µg/l Marine Fish - Mummichog - Fundulus 96 hours water heteroclitus : Based on available data, the classification criteria are not met. **Conclusion/Summary**

12.2 Persistence and degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Not available.

12.4 Mobility in soil	
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 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment meth	nods
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.
European waste catalogue (EWC)	: 080112, 200128
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	IATA	
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 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 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 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.
Drien Informed Concert (DIO)
Prior Informed Consent (PIC) Not listed.
Not listed.
Persistent Organic Pollutants
Not listed.
Annex XVII - Restrictions 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 : Not listed
(integrated pollution prevention and control) -
Air
Industrial emissions : Not listed
(integrated pollution
prevention and control) - Water
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol
Not listed.
Stockholm Convention on Persistent Organic Pollutants
Not listed.
Rotterdam Convention on 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 required. assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.				
Abbreviations and acronyms	 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 SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative 			
Procedure used to deriv	ve the classification			

Procedure used to derive the classification

Not classified.

Full text of abbreviated H statements

H351 S	cted of causing cancer.			
Full text of classifications				
Carc. 2	CARCINOGENICITY - 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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