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

# **SAFETY DATA SHEET**



TEKNOSAFE FLAME GUARD 2457-10 - BASE 1 White FKim 2102-27

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

1.	1	<b>Product identifie</b>	er
	Pr	oduct name	

: TEKNOSAFE FLAME GUARD 2457-10 - BASE 1 White FKim 2102-27

**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: In an emergency, call 112

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317

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

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

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

#### 2.2 Label elements

Hazard pictograms



Signal word Hazard statements	: Warning : H317 - May cause an allergic skin reaction.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	<ul> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: 1,2-benzisothiazol-3(2H)-one and reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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## **SECTION 2: Hazards identification**

Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No.	: 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

1907/2006, Annex XIII

## **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	≤10	Carc. 2, H351 (inhalation)	-	[1] [*]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9 Index: 613-167-00-5	<0.0025	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C $\geq$ 0.6% Eye Dam. 1, H318: C $\geq$ 0.6% Eye Irrit. 2, H319: 0.06% $\leq$ C < 0.6% Skin Sens. 1, H317: C $\geq$ 0.0015% M [Acute] = 100 M [Chronic] = 100	[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.

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

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

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

4.1 Description of first aid n	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

# 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 from the substance or mixture

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## **SECTION 5: Firefighting measures**

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: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

6.1 Personal precautions, pro	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
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

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

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Protective measures	hist whi Avo alte Em	t on appropriate personal protective equipment (see Section 8). Persons with a tory of skin sensitization problems should not be employed in any process in ich this product is used. Do not get in eyes or on skin or clothing. Do not ingest. bid breathing vapour or mist. Keep in the original container or an approved ernative made from a compatible material, kept tightly closed when not in use. pty containers retain product residue and can be hazardous. Do not reuse trainer.
Advice on general occupational hygiene	har eat equ	ting, drinking and smoking should be prohibited in areas where this material is ndled, stored and processed. Workers should wash hands and face before ing, drinking and smoking. Remove contaminated clothing and protective upment before entering eating areas. See also Section 8 for additional ormation 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 : Industrial sector specific : solutions

Not available.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
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro- 2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di- hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser. TWA: 0.05 mg/m <sup>3</sup> 8 hours.
No exposure limit value known.	
1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
No exposure limit value known.	

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SECTION 8: Exposure controls/	personal protection
No exposure limit value known.	
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	SUVA (Switzerland, 1/2023). Skin sensitiser.
	STEL: 0.4 mg/m <sup>3</sup> 15 minutes. Form: Inhalable fraction TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m <sup>3</sup> 8 hours. STEL: 101.2 mg/m <sup>3</sup> 15 minutes.
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia anhydrous] STEL: 25 mg/m <sup>3</sup> 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m <sup>3</sup> 8 hours. Form: anhydrous

#### **Biological exposure indices**

Product/ingredient	name		Exposure indices		
No exposure indices known.					
No exposure indices known.					
No exposure indices known.					
No exposure indices known.					
No exposure indices known.					
No exposure indices known.					
No exposure indices known.					
No exposure indices known.					
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No exposure indices known.					
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SECTION 8: Exposur	e controls/personal protection
No exposure indices known.	
Recommended monitoring	: Reference should be made to monitoring standards, such as the following:

procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) 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
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.966 mg/	population Workers	Systemic
			kg bw/day		
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m <sup>3</sup>	Workers	Systemic
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-	DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>	General population	Local
isothiazol-3-one [EC no. 220-239-6] (3:1)					
	DNEL	Long term Inhalation	0.02 mg/m³	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

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

od general ventilation should be sufficient to control worker exposure to airborne ntaminants. The hands, forearms and face thoroughly after handling chemical products, ore eating, smoking and using the lavatory and at the end of the working period. The period of the working period be used to remove potentially contaminated clothing. Intaminated work clothing should not be allowed out of the workplace. Wash that minated clothing before reusing. Ensure that eyewash stations and safety owers are close to the workstation location. Tety eyewear complying with an approved standard should be used when a risk the sessment indicates this is necessary to avoid exposure to liquid splashes, mists, the assessment indicates a higher degree of protection: safety glasses with e-shields.
ore eating, smoking and using the lavatory and at the end of the working period. oropriate techniques should be used to remove potentially contaminated clothing. Intaminated work clothing should not be allowed out of the workplace. Wash intaminated clothing before reusing. Ensure that eyewash stations and safety owers are close to the workstation location. They eyewear complying with an approved standard should be used when a risk dessment indicates this is necessary to avoid exposure to liquid splashes, mists, dess or dusts. If contact is possible, the following protection should be worn, ess the assessment indicates a higher degree of protection: safety glasses with e-shields.
ore eating, smoking and using the lavatory and at the end of the working period. oropriate techniques should be used to remove potentially contaminated clothing. Intaminated work clothing should not be allowed out of the workplace. Wash intaminated clothing before reusing. Ensure that eyewash stations and safety owers are close to the workstation location. They eyewear complying with an approved standard should be used when a risk dessment indicates this is necessary to avoid exposure to liquid splashes, mists, dess or dusts. If contact is possible, the following protection should be worn, ess the assessment indicates a higher degree of protection: safety glasses with e-shields.
sessment indicates this is necessary to avoid exposure to liquid splashes, mists, ses or dusts. If contact is possible, the following protection should be worn, ess the assessment indicates a higher degree of protection: safety glasses with e-shields.
amical resistant impervious aloves complying with an approved standard should
amical resistant, impervious gloves complying with an approved standard should
emical-resistant, impervious gloves complying with an approved standard should worn at all times when handling chemical products if a risk assessment indicates is necessary. Considering the parameters specified by the glove manufacturer, eck during use that the gloves are still retaining their protective properties. It build be noted that the time to breakthrough for any glove material may be erent for different glove manufacturers. In the case of mixtures, consisting of veral substances, the protection time of the gloves cannot be accurately imated.
commendations : Wear suitable gloves tested to EN374.
hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
t recommended polyvinyl alcohol (PVA) gloves
rsonal protective equipment for the body should be selected based on the task ng performed and the risks involved and should be approved by a specialist fore handling this product.
propriate footwear and any additional skin protection measures should be ected based on the task being performed and the risks involved and should be proved by a specialist before handling this product.
sed on the hazard and potential for exposure, select a respirator that meets the propriate standard or certification. Respirators must be used according to a piratory protection program to ensure proper fitting, training, and other important pects of use.
er type: A
er type (spray application): A P
issions from ventilation or work process equipment should be checked to sure they comply with the requirements of environmental protection legislation. some cases, fume scrubbers, filters or engineering modifications to the process upment 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	: Liquid.
Colour	: White.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

Ingredient name		°C	°F	Method	
water		100	212		
Pentaerythritol		368.85	695.9	ASTM E 537-02	
Flammability	: Not	available.	·		
-ower and upper explosion imit		ver: Not applicab ber: Not applicab			
Flash point	: Clo	sed cup: >100°C	; (>212°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
Pentaerythritol		>400	>752	EU A.16	
Decomposition temperature	: Not	available.	I		
H	: 7 to	10 [Conc. (% w	/w): 100%]		
/iscosity	: Not	available.			
Solubility(ies) Not available.	:				
Solubility in water	: Not	available.			
Partition coefficient: n-octano	/ : Not	applicable.			

water

#### Vapour pressure

	Vap	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					
Pentaerythritol	0.000000026	0.000000035					
Relative density	: Not a	vailable.	•				
ensity	: 1.4 g	/cm³					
apour density	: Not a	vailable.					
xplosive properties	: Not a	vailable.					
Dxidising properties	: Not a	vailable.					
article characteristics							
Median particle size	: Not a	pplicable.					

## SECTION 10: Stability and reactivity

2

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	Result	Species	Dose	Exposure
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	LD50 Oral	Rat	53 mg/kg	-

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

#### Acute toxicity estimates

Route	ATE value
Not available.	

#### Irritation/Corrosion

titanium dioxide	Skin - Mild irrita					
		nt	Human	-	72 hours 300	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irrita	at	Human	-	ug I 48 hours 5 %	
reaction mass of: 5-chloro-	Skin - Severe irr		Human	-	0.01 %	-
2-methyl-4-isothiazolin-						
3-one [EC no. 247-500-7]						
and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:						
1)						
Conclusion/Summary	: Based on ava	ilable data, the	L classification c	riteria are	not met.	
<u>Sensitisation</u>		·				
Conclusion/Summary	: May cause ar	ı allergic skin re	action.			
Mutagenicity		J.				
Conclusion/Summary	: Based on ava	ilable data, the	classification c	riteria are	not met.	
<u>Carcinogenicity</u>						
It has been observed that the leading to significant impairme					le dust is inhale	ed in quantities
Conclusion/Summary	: Based on ava	ilable data, the	classification c	riteria are	not met.	
Reproductive toxicity						
Conclusion/Summary	: Based on ava	ilable data, the	classification c	riteria are	not met.	
Teratogenicity						
Conclusion/Summary	: Based on ava	ilable data, the	classification c	riteria are	not met.	
Specific target organ toxicit	<u>y (single exposu</u>	<u>ire)</u>				
Not available.						
Specific target organ toxicit	y (repeated expo	<u>osure)</u>				
Not available.						
Aspiration hazard						
Not available.						
nformation on likely routes of exposure	: Not available.					
Potential acute health effects	È					
Eye contact	: No known sig	nificant effects o	or critical hazaı	ds.		
Inhalation	: No known sig	nificant effects o	or critical hazaı	ds.		
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Skin contact	: May cause an allergic skin reaction.
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	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
Short term exposure	
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 eff	ects
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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 - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water Acute EC50 3.7 mg/l	Algae - <i>Skeletonema Costatum</i> Daphnia - <i>Daphnia Magna</i>	72 hours 48 hours
	Acute LC50 1.9 mg/l Fresh water Acute NOEC 0.15 mg/l Marine water	Fish - Onorhynchus Mykiss Algae - Skeletonema Costatum	96 hours 72 hours

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

#### 12.2 Persistence and degradability

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## SECTION 12: Ecological information

Product/ingredient name	Test	Result		Dose	Inoculum
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life		Photolysis	\$	Biodegradability
1,2-benzisothiazol-3(2H)-one	-		-		Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,2-benzisothiazol-3(2H)-one	-	3.2	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 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.
European waste catalogue (EWC)	: 080111*
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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional informa ADN 14.6 Special precau user	: The prod vessels. utions for : Transpo upright a	luct is only regulated as a c <b>rt within user's premises</b> nd secure. Ensure that per t of an accident or spillage.	: always transport in sons transporting the	closed containers that are
14.7 Maritime trans bulk according to I instruments		ant/applicable due to natur	e of the product.	

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

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.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name			%	Designatio	n [Usage]			
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Labelling	1		•					
<u>Other EU regulations</u>								
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed						
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed						
Explosive precursors	1	Not applicab	le.					
Ozone depleting substanc	es	<u>(1005/2009/E</u>	<u>:U)</u>					
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## **SECTION 15: Regulatory information**

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

: Not regula	ted
: Permitted.	
: IV	
: IV-1	
<u>/2015</u>	
	: IV : IV-1

Ingredient name	Annex I Section A	Annex I Section B
titanium dioxide	Listed	-

MAL-code	: 00-1
Protection based on MAL	: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1 **Application:** When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

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## **SECTION 15: Regulatory information**

		*See Regulations.
Restrictions on use	:	Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	:	Not listed
Carcinogenic waste	:	Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.
<u>Finland</u>		
<u>France</u>		
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable
<u>Germany</u>		
Storage class (TRGS 510)	:	10
Hazardous incident ordina	inc	<u>e</u>
This product is not controlled	d ui	nder the Germany Hazardous Incident Ordinance.
Hazard class for water	:	1
Technical instruction on air quality control	:	TA-Luft Number 5.2.5: 1.3%
ΑΟΧ	:	The product contains organically bound halogens and can contribute to the AOX value in waste water.
<u>Italy</u>		
D.Lgs. 152/06	:	Not determined.
Netherlands		
Water Discharge Policy (ABM)	:	A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A
<u>Norway</u>		
<u>Sweden</u>		
Switzerland		
VOC content	:	Exempt.
International regulations		
Chemical Weapon Convent Not listed.	ion	List Schedules I, II & III Chemicals
Montreal Protocol		
Not listed.		
Stockholm Convention on F Not listed.	<u>Per</u>	sistent Organic Pollutants
Rotterdam Convention on F Not listed.	<u>Pric</u>	or Informed Consent (PIC)
UNECE Aarhus Protocol on Not listed.	PC	DPs and Heavy Metals
15.2 Chemical safety 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.

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

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

Classification	Justification	
Skin Sens. 1, H317	Calculation method	

#### Full text of abbreviated H statements

r	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

revision Date of previous issue	
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Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Acute Tox. 4	ACUTE TOXICITY - Category 4
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 2	ACUTE TOXICITY - Category 2

Version

: 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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