SAFETY DATA SHEET



AITAMAALI - All variants

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

1.1 Product identifier Product name

: 🕅 TAMAALI - 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 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
 : Malta Competition and Consumer Affairs Authority (MCCAA): +356 2395 2000

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]

Aquatic Chronic 3, H412

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		
Signal word	:	No signal word.
Hazard statements	:	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	P273 - Avoid release to the environment.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Contains 3-iodo-2-propynyl-butyl carbamate, 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). May produce an allergic reaction. 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 and BIT and EGForm and C(M)IT/MIT (3:1). Risk of skin sensitisation.

SECTION 2: Hazards identification

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.
1907/2006, Annex XIII: This mixture of
vPvB.Other hazards which do: None known.

not result in classification

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Manium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1.8	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Nano-zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤0.25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.21	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C $\ge 0.036\%$ M [Acute] = 1 M [Chronic] = 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)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5	[1]
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SECTION 3: Composition/information on ingredients

Aquatic Acute 1, H400 mg/l Aquatic Chronic 1, Skin Corr. 1C, H410 H314: $C \ge 0.6\%$ EUH071 Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100 M [Chronic] = 100
See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

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.

Particle characteristics

Product/ingredient name	Size distribution	Shape and aspect ratio	Crystallinity	Surface functionalisation/ treatment	Specific surface area	Additional information
Nano-zinc oxide	d50 <100 nm	Not available	Not available	Not available	Not available	Not available

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.
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.
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

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

SECTION 5: Firefighting measures

SECTION 5. Filelight	ing 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	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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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	ote	ctive equipment and emergency procedures		
For non-emergency personnel	:	No action shall be taken involving any personal risk or with Evacuate surrounding areas. Keep unnecessary and unp entering. Do not touch or walk through spilt material. Put protective equipment.	rotected personnel fr	rom
For emergency responders	:	If specialised clothing is required to deal with the spillage, information in Section 8 on suitable and unsuitable materi information in "For non-emergency personnel".		
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact wit and sewers. Inform the relevant authorities if the product pollution (sewers, waterways, soil or air). Water polluting to the environment if released in large quantities.	has caused environn	nental
6.3 Methods and material for	СС	ntainment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. material and place in an appropriate waste disposal conta licensed waste disposal contractor.		
Large spill	:	Stop leak if without risk. Move containers from spill area. from upwind. Prevent entry into sewers, water courses, b areas. Wash spillages into an effluent treatment plant or Dispose of via a licensed waste disposal contractor. Cont material may pose the same hazard as the spilt product. spillage with non-combustible, absorbent material e.g. sar diatomaceous earth and place in container for disposal ac regulations.	asements or confined proceed as follows. caminated absorbent Contain and collect nd, earth, vermiculite	d
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal pro See Section 13 for additional waste treatment information		
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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

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.	

Biological exposure indices

Product/ingredient name No exposure indices known.		Exposure indices	
Recommended monitoring procedures	European Stand assessment of e values and mea atmospheres - (of exposure to c (Workplace atm for the measure	Id be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit surement 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 nospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be	
DNELs/DMELs			

Product/ingredient name

Result

SECTION 8: Exposure controls/personal protection				
Manium dioxide	DNEL - General population - Long term - Inhalation 28 µg/m³ Effects: Local			
	DNEL - Workers - Long term - Inhalation 170 μg/m³ <u>Effects</u> : Local			
3-iodo-2-propynyl-butyl carbamate	DNEL - Workers - Long term - Inhalation 0.023 mg/m ³ <u>Effects</u> : Systemic			
	DNEL - Workers - Short term - Inhalation 0.07 mg/m ³ Effects: Systemic			
	DNEL - Workers - Short term - Inhalation 1.16 mg/m³ <u>Effects</u> : Local			
	DNEL - Workers - Long term - Inhalation 1.16 mg/m³ <u>Effects</u> : Local			
	DNEL - Workers - Long term - Dermal 2 mg/kg bw/day <u>Effects</u> : Systemic			
1,2-benzisothiazol-3(2H)-one	DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects</u> : Systemic			
	DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day <u>Effects</u> : Systemic			
	DNEL - General population - Long term - Inhalation 1.2 mg/m ³ <u>Effects</u> : Systemic			
	DNEL - Workers - Long term - Inhalation 6.81 mg/m ³ Effects: Systemic			
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)	DNEL - General population - Long term - Inhalation 0.02 mg/m ³ <u>Effects</u> : Local			
	DNEL - Workers - Long term - Inhalation 0.02 mg/m³ <u>Effects</u> : Local			
	DNEL - General population - Short term - Inhalation 0.04 mg/m ³ <u>Effects</u> : Local			
	DNEL - Workers - Short term - Inhalation 0.04 mg/m³ <u>Effects</u> : Local			
	DNEL - General population - Long term - Oral 0.09 mg/kg bw/day <u>Effects</u> : Systemic			
	DNEL Constal population Short form Oral			

DNEL - General population - Short term - Oral

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0.11 mg/kg bw/day Effects: Systemic

PNECs

Not available.

8.2 Exposure controls		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measure	ures	
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
		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

Appearance	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight

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SECTION 9: Physical and chemical properties

Not available. Not available.

Odour threshold	1
Melting point/freezing point	:
Initial boiling point and	1
boiling range	

	Ingredient name	°C	°F	Method		
	water	100	212			
	2,2,4-trimethylpentane-1,3-diol isobutyrate	255 to 260	491 to 500			
F	Flammability : Not available.					

	I Hot available!
Lower and upper explosion limit	: Lower: Not applicable. Upper: Not applicable.
Flash point	: Closed cup: >100°C (>212°F)

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Auto-ignition temperature

Ingredient name	°C	°F	Method
2,2,4-trimethylpentane-1,3-diol isobutyrate	393	739.4	

Decomposition temperature	:	Not available.
рН	:	8.5 to 9.1 [Conc. (% w/w): 100%]
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	1	Not applicable.

Vapour pressure

	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					
2,2,4-trimethylpentane-1,3-diol isobutyrate	0.0098	0.0013	EU A.4				
Relative density	: Not	available.		ł			
Density	: 1.3 g/cm ³						
/apour density	: Not available.						
Particle characteristics							
Median particle size	: Not applicable.						

Refer to section 3 for further detail on nanoform particle characterisation.

9.2 Other information

9.2.1 Information with I	regard to physical hazard classes
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2.2 Other safety characteristics

Not applicable.

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 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 i Acute toxicity	n Regulation (EC) No 1272/2008
Product/ingredient name 3-iodo-2-propynyl-butyl carbamate	Result Rat - Oral - LD50 400 mg/kg
	Rat - Dermal - LD50 >2000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists 0.763 mg/l [4 hours]
	Rat - Inhalation - LC50 Dusts and mists 0.67 g/m ³ [4 hours]
1,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50 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)	Rat - Oral - LD50 53 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
A TAMAALI	N/A	N/A	N/A	N/A	336.9
3-iodo-2-propynyl-butyl carbamate	400	N/A	N/A	N/A	0.67
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
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)	53	50	N/A	0.5	N/A

Skin corrosion/irritation

Product/ingredient name

Result

ECTION 11: Toxicological informat	Human - Skin - Mild irritant
	Duration of treatment/exposure: 72 hours
	Amount/concentration applied: 300 ug l
Zinc oxide	Rabbit - Skin - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
Nano-zinc oxide	Rabbit - Skin - Mild irritant
	<u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg
1,2-benzisothiazol-3(2H)-one	Human - Skin - Mild irritant
	Duration of treatment/exposure: 48 hours
	Amount/concentration applied: 5 %
reaction mass of: 5-chloro-2-methyl-	Human - Skin - Severe irritant
4-isothiazolin-3-one [EC no. 247-500-7] and	Amount/concentration applied: 0.01 %
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	
Conclusion/Summary [Product] : Not availabl	e.
Serious eye damage/eye irritation	
Product/ingredient name	Result
Zínc oxide	Rabbit - Eyes - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
Nano-zinc oxide	Rabbit - Eyes - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
3-iodo-2-propynyl-butyl carbamate	Rabbit - Eyes - Severe irritant
Conclusion/Summary [Product] : Not availabl	e.
Respiratory corrosion/irritation	
Not available.	
Conclusion/Summary [Product] : Not availabl	e
	0.
Respiratory or skin sensitization	
Product/ingredient name	Result
β-iodo-2-propynyl-butyl carbamate	Guinea pig - skin
	<u>Result</u> : Not sensitizing
Skin	
Conclusion/Summary [Product] : Not availabl	e.
Respiratory	
Conclusion/Summary [Product] : Not availabl	е.
Germ cell mutagenicity	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	In vitro - Bacteria
	<u>Result</u> : Negative

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SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Product/ingredient name Fiodo-2-propynyl-butyl carbamate

Result

Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u>: Positive <u>Developmental</u>: Negative

Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u>: Negative <u>Developmental</u>: Negative

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure) Not available.

Specific target organ toxicity (repeated exposure)	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	STOT RE 1, H372 (larynx)

Aspiration hazard				
Not available.				
Information on likely routes	of	<u>exposure</u>		
Not available.				
Potential acute health effect	<u>ts</u>			
Eye contact	:	No known significant effects or critical l	nazards.	
Inhalation	:	No known significant effects or critical l	nazards.	
Skin contact	:	No known significant effects or critical l	nazards.	
Ingestion	:	No known significant effects or critical l	nazards.	
Symptoms related to the ph	ysi	cal, chemical and toxicological chara	<u>cteristics</u>	
Eye contact	:	No specific data.		
Inhalation	:	No specific data.		
Skin contact	:	No specific data.		
Ingestion	:	No specific data.		
Delayed and immediate effe	cts	as well as chronic effects from short	and long-term exp	<u>osure</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 [P	roduct] : 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.

Conclusion/Summary [Product] : The

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity **Product/ingredient name** Result titanium dioxide Acute - LC50 - Marine water Fish - Mummichog - Fundulus heteroclitus >1000000 µg/l [96 hours] Effect: Mortality Acute - LC50 - Fresh water Crustaceans - Water flea - Ceriodaphnia dubia - Neonate Age: <24 hours 3 mg/l [48 hours] Effect: Mortality Zinc oxide Acute - LC50 - Fresh water Daphnia - Water flea - Daphnia magna - Neonate Age: <24 hours 98 µg/l [48 hours] Effect: Mortality Acute - IC50 - Fresh water Algae - Green algae - Pseudokirchneriella subcapitata -Exponential growth phase 46 µg/l [72 hours] Effect: Population Acute - LC50 - Fresh water US EPA Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Weight: 0.78 g 1.1 ppm [96 hours] Effect: Mortality Nano-zinc oxide Acute - LC50 - Fresh water Daphnia - Water flea - Daphnia magna - Neonate Age: <24 hours 98 µg/l [48 hours] Effect: Mortality Acute - IC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata* -Exponential growth phase 46 μg/l [72 hours]

SECTION 12: Ecological information

3-iodo-2-propynyl-butyl carbamate

Effect:	Population
---------	------------

Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* <u>Weight</u>: 0.78 g 1.1 ppm [96 hours] Effect: Mortality

Acute - LC50 - Fresh water EU Fish - Trout - Oncorhynchus mykiss

0.067 mg/l [96 hours]

Acute - NOEC - Fresh water

EU Fish - Trout - *Oncorhynchus mykiss* 0.049 mg/l [96 hours]

Acute - EC50 - Fresh water EU Daphnia - Daphnia - Daphnia magna

0.16 mg/l [48 hours]

Chronic - NOEC - Fresh water

Daphnia - Daphnia - *Daphnia Magna* 0.05 mg/l [21 days]

Acute - EC50 - Fresh water

EU Algae - Algae - *Scenedemus subspicatus* 0.022 mg/l [72 hours]

Acute - LC50 - Fresh water

OECD [Fish, Acute Toxicity Test] Fish - Trout - *Onorhynchus Mykiss* 1.9 mg/l [96 hours]

Acute - EC50

OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - *Daphnia Magna* 3.7 mg/l [48 hours]

Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - *Skeletonema Costatum* 0.36 mg/l [72 hours]

Acute - NOEC - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum

0.15 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

1,2-benzisothiazol-3(2H)-one

1,2-benzisothiazol-3(2H)-one

Result

EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

SECTION 12: Ecological information

Product/ingredient name	Product/ingredient name Aquatic half-life Photolysis Biodegradability								
了iodo-2-propynyl-butyl carbamate	-	-	Not readily						
1,2-benzisothiazol-3(2H)-one	-	-	Inherent						

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Zinc oxide	-	28960	High
Nano-zinc oxide	-	28960	High
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
riodo-2-propynyl-butyl carbamate	1.13	13.4558
1,2-benzisothiazol-3(2H)-one	1.86	73.142

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	vM
titanium dioxide	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
Nano-zinc oxide	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
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)	No	No	No	No	No	No	No

Mobility Conclusion/Summary : Not available.

: The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
Nano-zinc oxide	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
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)	No	No	No	No	No	No	No

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Product/ingredient name	PBT	Ρ	В	т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
Nano-zinc oxide	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
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)	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

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Conclusion/Summary [Product]
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: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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*, 200127*
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	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
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ATAMAALI - All varia	ints			Label No : 109723

SECTION 14: Transport information				
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.

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

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous

substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
A TAMAALI	≥90	3
Labelling : 🔽	-	
Other EU regulations		
Industrial emissions : Not listed (integrated pollution prevention and control) - Air		
Industrial emissions : Not listed (integrated pollution prevention and control) - Water		
Explosive precursors : Not applica	ble.	
Ozone depleting substances (EU 2024/59	<u>)))</u>	
Not listed.		
Prior Informed Consent (PIC) (649/2012/E Not listed.	<u>:U)</u>	
Persistent Organic Pollutants Not listed.		
Seveso Directive		
This product is not controlled under the Sev	eso Direct	stive.
International regulations		

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SECTION 15: Regulatory information

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 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 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]

Classification	Justification	
Aquatic Chronic 3, H412	Calculation method	

Full text of abbreviated H statements

	- · · · ·
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.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

SECTION 16: Other information

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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revision	
Date of previous issue	: 30/06/2022
Version	: 2

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.

Date of issue/Date of revision

: 07/03/2025 Date of previous issue