## **SAFETY DATA SHEET**



AITAMAALI - All variants

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

#### 1.1 Product identifier Product name

: AITAMAALI - 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
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Product definition : Mixture

#### **Classification according to UK CLP/GHS**

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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	1	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	1	P273 - Avoid release to the environment.
Response	1	Not applicable.
Storage	1	Not applicable.
Disposal	:	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.

<b>SECTION 2: Hazards</b>	SECTION 2: Hazards identification				
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					
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.			
Other hazards which do not result in classification	1	None known.			

## SECTION 3: Composition/information on ingredients

vixture	3.2 Mixtures : Mixture				
Identifiers	%	Classification	Туре		
REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1.8	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]		
REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤0.3	Not classified.	[2]		
REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2	≤0.25	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]		
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 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]		
EC: 310-194-1 CAS: 1332-58-7	≤0.1	Not classified.	[2]		
REACH #: 01-2119457017-41 EC: 201-607-5 CAS: 85-44-9 Index: 607-009-00-4	≤0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]		
REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	<0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1)	[1] [2]		
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 Aquatic Acute 1, H400	[1]		
	Identifiers           REACH #:           01-2119463881-32           EC: 215-222-5           CAS: 1314-13-2           Index: 030-013-00-7           REACH #:           01-2119456809-23           EC: 200-338-0           CAS: 57-55-6           REACH #:           01-2119456881-32           EC: 200-338-0           CAS: 57-55-6           REACH #:           01-2119463881-32           EC: 215-222-5           CAS: 1314-13-2           Index: 030-013-00-7           EC: 215-222-5           CAS: 1314-13-2           Index: 030-013-00-7           EC: 259-627-5           CAS: 55406-53-6           Index: 616-212-00-7           EC: 310-194-1           CAS: 1332-58-7           REACH #:           01-2119457017-41           EC: 201-607-5           CAS: 85-44-9           Index: 607-009-00-4           REACH #:           01-2119488876-14           EC: 215-647-6           CAS: 1336-21-6           Index: 007-001-01-2           EC: 911-418-6           CAS: 55965-84-9	Identifiers%REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 REACH #: 01-2119466809-23 EC: 200-338-0 CAS: 57-55-6 REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7 $\leq 0.25$ EC: 310-194-1 CAS: 55406-53-6 Index: 616-212-00-7 $\leq 0.21$ EC: 310-194-1 CAS: 1332-58-7 REACH #: CAS: 85-44-9 Index: 607-009-00-4 $\leq 0.1$ EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2 EC: 911-418-6 CAS: 55965-84-9 $< 0.0015$	Identifiers         %         Classification           REACH #:         ≤1.8         Aquatic Acute 1, H400 (M=1)         Aquatic Acute 1, H400 (M=1)           EC: 215-222-5         CAS: 1314-13-2         H410 (M=1)           Index: 030-013-00-7         REACH #:         01-2119456809-23         Solution           CAS: 57-55-6         REACH #:         01-2119463881-32         Solution           CAS: 57-55-6         REACH #:         <0.25		

Formaldehyde	position/information on i REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	(M=100) Aquatic Chronic 1, H410 (M=100) EUH071 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350	[1] [2]
			STOT SE 3, H335 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

[2] Substance with a workplace exposure limit

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

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

4.1 Description of first aid measures				
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.			
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.			
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>			
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	<ul> <li>No aposifio trootmont</li> </ul>

Specific treatments : No specific treatment.

## **SECTION 5: Firefighting measures**

SECTION 5. Firenginning 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 i there is a fire. No action shall be taken involving any personal risk or without suitable training.	f		
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 British standard BS 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 without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. 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.
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.
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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 solutions	: Not available.

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

Occupational exposure limits	
Propylene glycol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 474 mg/m <sup>3</sup> . Form: total vapour and particulates. TWA 8 hours: 150 ppm. Form: total vapour and particulates. TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Particulate.
Kaolin	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 2 mg/m <sup>3</sup> . Form: respirable dust.
phthalic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020) Inhalation sensitiser. STEL 15 minutes: 12 mg/m <sup>3</sup> . TWA 8 hours: 4 mg/m <sup>3</sup> .
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia] STEL 15 minutes: 25 mg/m <sup>3</sup> . Form: anhydrous. STEL 15 minutes: 35 ppm. Form: anhydrous. TWA 8 hours: 25 ppm. Form: anhydrous. TWA 8 hours: 18 mg/m <sup>3</sup> . Form: anhydrous.
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020) Carc. STEL 15 minutes: 2.5 mg/m <sup>3</sup> . STEL 15 minutes: 2 ppm. TWA 8 hours: 2 ppm. TWA 8 hours: 2.5 mg/m <sup>3</sup> .

#### **Biological exposure indices**

8.1 Control parameters

No exposure indices known.

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

Recommended monitoring : procedures	Standard BS exposure by measurement Guide for the chemical and atmospherest measurement	hould be made to monitoring standards, such as the following: British S EN 689 (Workplace atmospheres - Guidance for the assessment of inhalation to chemical agents for comparison with limit values and nt strategy) British Standard BS EN 14042 (Workplace atmospheres e application and use of procedures for the assessment of exposure to d biological agents) British Standard BS EN 482 (Workplace s - General requirements for the performance of procedures for the nt of chemical agents) Reference to national guidance documents fo the determination of hazardous substances will also be required.	f s - to
DNELs/DMELs			
Product/ingredient name Propylene glycol		<b>Result</b> DNEL - General population - Long term - Inhalation 10 mg/m <sup>3</sup> <u>Effects</u> : Local	
		<b>DNEL - Workers - Long term - Inhalation</b> 10 mg/m³ <u>Effects</u> : Local	
		<b>DNEL - General population - Long term - Inhalation</b> 50 mg/m <sup>3</sup> <u>Effects</u> : Systemic	
		<b>DNEL - Workers - Long term - Inhalation</b> 168 mg/m <sup>3</sup> <u>Effects</u> : Systemic	
3-iodo-2-propynyl-butyl carbam	ate	<b>DNEL - Workers - Long term - Inhalation</b> 0.023 mg/m <sup>3</sup> <u>Effects</u> : Systemic	
		DNEL - Workers - Short term - Inhalation 0.07 mg/m <sup>3</sup> Effects: Systemic	
		<b>DNEL - Workers - Short term - Inhalation</b> 1.16 mg/m³ <u>Effects</u> : Local	
		<b>DNEL - Workers - Long term - Inhalation</b> 1.16 mg/m³ <u>Effects</u> : Local	
		<b>DNEL - Workers - Long term - Dermal</b> 2 mg/kg bw/day <u>Effects</u> : Systemic	
phthalic anhydride		<b>DNEL - General population - Short term - Oral</b> 25 mg/kg bw/day <u>Effects</u> : Systemic	
		<b>DNEL - General population - Long term - Oral</b> 5 mg/kg bw/day <u>Effects</u> : Systemic	
		<b>DNEL - General population - Long term - Dermal</b> 5 mg/kg bw/day <u>Effects</u> : Systemic	
		<b>DNEL - General population - Long term - Inhalation</b> 8.7 mg/m <sup>3</sup> <u>Effects</u> : Systemic	
		<b>DNEL - Workers - Long term - Dermal</b> 14 mg/kg bw/day	
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#### **SECTION 8: Exposure controls/personal protection**

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)

Formaldehyde

Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 49.4 mg/m<sup>3</sup> <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.02 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Long term - Inhalation** 0.02 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - General population - Short term - Inhalation** 0.04 mg/m<sup>3</sup> <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 0.04 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Long term - Oral** 0.09 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Short term - Oral** 0.11 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 12 µg/cm<sup>2</sup> Effects: Local

**DNEL - Workers - Long term - Dermal** 37 µg/cm<sup>2</sup> <u>Effects</u>: Local

**DNEL - General population - Long term - Inhalation** 0.1 mg/m<sup>3</sup> <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 0.375 mg/m<sup>3</sup> Effects: Local

DNEL - Workers - Short term - Inhalation 0.75 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Long term - Inhalation** 3.2 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Oral** 4.1 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 9 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Dermal** 102 mg/kg bw/day <u>Effects</u>: Systemic

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

**DNEL - Workers - Long term - Dermal** 240 mg/kg bw/day <u>Effects</u>: 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	<u>res</u>			
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contaminated clot Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	thing.		
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a r assessment indicates this is necessary to avoid exposure to liquid splashes, m gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses side-shields.	ists,		
Skin protection				
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard sh be worn at all times when handling chemical products if a risk assessment india this is necessary. Considering the parameters specified by the glove manufact 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.	cates urer,		
	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 ta 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 approved by a specialist before handling this product.	be		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other impo 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 legislatic In some cases, fume scrubbers, filters or engineering modifications to the proc 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			

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Odour	: Slig					
Odour threshold	: Not	: Not available.				
Melting point/freezing poin	t : Not	: Not available.				
Initial boiling point and boiling range	:					
Ingredient name		°C	°F	Me	ethod	
water		100	212			
2,2,4-trimethylpentane-1,3-diol iso	butyrate	255 to 260	491 to 500			
Flammability (solid, gas)	: Not	available.		<u>.</u>		
Upper/lower flammability o explosive limits		er: Not applicab er: Not applicab				
Flash point	: Clos	ed cup: >100°C	≎ (>212°F)			
Auto-ignition temperature	÷					
Ingredient name		°C	°F	М	ethod	
2,2,4-trimethylpentane-1,3-diol isc	obutyrate	393	739.4			
Decomposition temperatur	e : Not	available.		Į		
рН	: 8.5	to 9.1 [Conc. (%	w/w): 100%]			
Viscosity	Kine		perature): Not ava nperature): Not av lot available.			
Solubility(ies) Not available.	:					
Solubility in water	: Not	available.				
Partition coefficient: n-octa water	<b>nol/</b> : Not	applicable.				
Vapour pressure	:					
	Va	pour Pressure	at 20°C	Va	apour pres	sure 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	0.0098	0.0013 E	EU A.4			

Relative density	: Not available.	
Density	: 1.3 g/cm <sup>3</sup>	
Vapour density	: Not available.	
Explosive properties	: Not available.	
Oxidising properties	: Not available.	
Particle characteristics		
Median particle size	: Not applicable.	

#### 9.2 Other information

Not available.

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.					
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SECTION 10: Stability and react	-
<b>10.4 Conditions to avoid</b> : No specific d	ata.
10.5 Incompatible materials : No specific d	ata.
10.6 Hazardous: Under normadecomposition productsshould not be	ll conditions of storage and use, hazardous decomposition products produced.
SECTION 11: Toxicological info	rmation
1.1 Information on toxicological effects	
Acute toxicity	
Product/ingredient name Propylene glycol	<mark>Result</mark> Rat - Oral - LD50 20 g/kg
	<b>Rabbit - Dermal - LD50</b> 20800 mg/kg
3-iodo-2-propynyl-butyl carbamate	<b>Rat - Oral - LD50</b> 400 mg/kg
	<b>Rat - Dermal - LD50</b> >2000 mg/kg
	<b>Rat - Inhalation - LC50 Dusts and mists</b> 0.763 mg/l [4 hours]
	<b>Rat - Inhalation - LC50 Dusts and mists</b> 0.67 g/m <sup>3</sup> [4 hours]
phthalic anhydride	<b>Rat - Oral - LD50</b> 1530 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity)
Ammonia	<b>Rat - Oral - LD50</b> 350 mg/kg <u>Toxic effects</u> : Gastrointestinal - Other changes Liver - Other changes Kidney, Ureter, and Bladder - Other changes
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)	<b>Rat - Oral - LD50</b> 53 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression
Formaldehyde	<b>Rat - Oral - LD50</b> 100 mg/kg
	<b>Rabbit - Dermal - LD50</b> 270 mg/kg
	<b>Rat - Inhalation - LC50 Gas.</b> 250 ppm [4 hours]

Acute toxicity estimates

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## **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
AITAMAALI Propylene glycol 3-iodo-2-propynyl-butyl carbamate phthalic anhydride 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)	N/A 20000 400 1530 53	N/A 20800 N/A N/A 50	N/A N/A N/A N/A N/A	N/A N/A N/A N/A 0.5	336.9 N/A 0.67 N/A N/A
Formaldehyde	100	270	250	N/A	N/A

#### Skin corrosion/irritation

Product/ingredient name	
Zinc oxide	

Propylene glycol

Nano-zinc oxide

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)

Formaldehyde

#### Result

Duration of treatment/exposure: 24 hours<br/>Amount/concentration applied: 500 mgChild - Skin - Moderate irritant<br/>Duration of treatment/exposure: 96 hours<br/>Amount/concentration applied: 30 % CHuman - Skin - Mild irritant<br/>Duration of treatment/exposure: 168 hours<br/>Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant

Human - Skin - Moderate irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 104 mg I

**Woman - Skin - Mild irritant** <u>Duration of treatment/exposure</u>: 96 hours <u>Amount/concentration applied</u>: 30 %

Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Human - Skin - Severe irritant Amount/concentration applied: 0.01 %

Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 150 ug l

Human - Skin - Severe irritant Amount/concentration applied: 0.01 %

Rabbit - Skin - Mild irritant Amount/concentration applied: 540 mg

Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 50 mg

Rabbit - Skin - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg

Rabbit - Skin - Severe irritant Amount/concentration applied: 0.8 %

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: No previous validation Version

Version :1 11/21 Label No :109723 Mouse - Skin - Moderate irritant Amount/concentration applied: 7 %

Rat - Skin - Moderate irritant Amount/concentration applied: 7 %

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation	
Product/ingredient name Zinc oxide	Result Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
Propylene glycol	<b>Rabbit - Eyes - Mild irritant</b> <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg
	Rabbit - Eyes - Mild irritant Amount/concentration applied: 100 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
phthalic anhydride	<b>Rabbit - Eyes - Moderate irritant</b> <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 50 mg
Ammonia	Rabbit - Eyes - Severe irritant Amount/concentration applied: 250 ug
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 44 ug
	Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 0.5 minutes Amount/concentration applied: 1 mg
Formaldehyde	Human - Eyes - Mild irritant Duration of treatment/exposure: 6 minutes Amount/concentration applied: 1 ppm
	Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 750 ug
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 750 ug
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 37 %
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 10 mg

Mouse - Eyes - Moderate irritant Amount/concentration applied: 3 %

Conclusion/Summary [Product] : Not available.

## **SECTION 11: Toxicological information**

## Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

Respiratory or skin sensitization
-----------------------------------

Product/ingredient name

Result

3-iodo-2-propynyl-butyl carbamate

Guinea pig - skin Result: Not sensitizing

#### Skin

**Conclusion/Summary [Product]** : Not available.

#### Respiratory

**Conclusion/Summary [Product]** : Not available.

Germ cell mutagenicity

Product/ingredient name 3-iodo-2-propynyl-butyl carbamate Result In vitro - Bacteria Result: Negative

**Conclusion/Summary [Product]** : Not available.

#### **Carcinogenicity**

Not available.

**Conclusion/Summary [Product]** : Not available.

#### Reproductive toxicity Product/ingredient name 3-iodo-2-propynyl-butyl carbamate

#### Result

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

Product/ingredient name	Result
phthalic anhydride	STOT SE 3, H335 (Respiratory tract irritation)
Ammonia	STOT SE 3, H335 (Respiratory tract irritation)
Formaldehyde	STOT SE 3, H335 (Respiratory tract irritation)

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name 3-iodo-2-propynyl-butyl carbamate

STOT RE 1, H372 (larynx)

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Result

: No previous validation

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## **SECTION 11: Toxicological information**

SECTION II. TOXICON	ogical information
Aspiration hazard	
Not available.	
Information on likely routes	<u>of exposure</u>
Not available.	
Potential acute health effects	<u>s</u>
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 phy	vsical, 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 effect	cts 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 effe	<u>cts</u>
Not available.	
Conclusion/Summary [Pro	duct] : 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 Zinc oxide

#### Result

#### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate <u>Age</u>: <24 hours 98 µg/l [48 hours] <u>Effect</u>: Mortality

#### Acute - IC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata* -Exponential growth phase 46 μg/l [72 hours] <u>Effect</u>: Population

#### Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

SECTION 12: Ecological information	ation
	<u>Weight</u> : 0.78 g 1.1 ppm [96 hours] <u>Effect</u> : Mortality
Propylene glycol	<b>Acute - LC50 - Fresh water</b> EU Fish - Trout - <i>Oncorhynchus mykiss</i> 40613 mg/l [96 hours]
	<b>Acute - EC50 - Fresh water</b> EU Algae - Algae 19300 mg/l [96 hours]
	<b>Acute - LC50 - Fresh water</b> Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> <u>Age</u> : <24 hours 18340000 μg/l [48 hours] <u>Effect</u> : Mortality
Nano-zinc oxide	<b>Acute - LC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> - Neonate <u>Age</u> : <24 hours 98 μg/l [48 hours] <u>Effect</u> : Mortality
	<b>Acute - IC50 - Fresh water</b> Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> - Exponential growth phase 46 μg/l [72 hours] <u>Effect</u> : Population
	<b>Acute - LC50 - Fresh water</b> US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 0.78 g 1.1 ppm [96 hours] <u>Effect</u> : Mortality
3-iodo-2-propynyl-butyl carbamate	<b>Acute - LC50 - Fresh water</b> EU Fish - Trout - <i>Oncorhynchus mykiss</i> 0.067 mg/l [96 hours]
	<b>Acute - NOEC - Fresh water</b> EU Fish - Trout - <i>Oncorhynchus mykiss</i> 0.049 mg/l [96 hours]
	<b>Acute - EC50 - Fresh water</b> EU Daphnia - Daphnia - <i>Daphnia magna</i> 0.16 mg/l [48 hours]
	<b>Chronic - NOEC - Fresh water</b> EU Daphnia - Daphnia - <i>Daphnia Magna</i> 0.05 mg/l [21 days]
	<b>Acute - EC50 - Fresh water</b> EU Algae - Algae - <i>Scenedemus subspicatus</i> 0.022 mg/l [72 hours]
phthalic anhydride	Acute - EC50 - Fresh water
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SECTION 12: Ecological information	1
	Algae - Green algae - <i>Pseudokirchneriella subcapitata <u>Age</u>: 3 to 7 days 147 µg/l [96 hours] <u>Effect</u>: Population</i>
Ammonia	<b>Acute - LC50 - Fresh water</b> Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult 37 ppm [96 hours] <u>Effect</u> : Mortality
Formaldehyde	<b>Acute - EC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia pulex</i> - Neonate <u>Age</u> : <24 hours 5800 μg/l [48 hours] <u>Effect</u> : Intoxication
	<b>Acute - EC50 - Marine water</b> Algae - Green algae - <i>Ulva pertusa</i> 0.788 mg/l [96 hours] <u>Effect</u> : Reproduction
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> 1.41 ppm [96 hours] <u>Effect</u> : Mortality
	<b>Chronic - NOEC - Fresh water</b> Fish - Chinook salmon - <i>Oncorhynchus tshawytscha</i> - Egg 953.9 ppm [43 days] <u>Effect</u> : Mortality
	<b>Chronic - NOEC - Marine water</b> Algae - Haptophyte - <i>Isochrysis galbana</i> - Exponential growth phase <u>Age</u> : 4 to 5 days 0.005 mg/l [96 hours] <u>Effect</u> : Population
Conclusion/Summary [Product] : Not availabl	e.

#### 12.2 Persistence and degradability

Not available.

#### **Conclusion/Summary [Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylene glycol	-	-	Readily
3-iodo-2-propynyl-butyl carbamate	-	-	Not readily

12.3 Bioaccumulative potential

SECTION 12: Ecological information				
Product/ingredient name	LogPow	BCF	Potential	
Zinc oxide	-	28960	High	
Propylene glycol	-1.07	-	Low	
Nano-zinc oxide	-	28960	High	
3-iodo-2-propynyl-butyl carbamate	>1	-	Low	
phthalic anhydride	1.6	3.4	Low	

12.4 Mobility in soil	
Soil/water partition coefficient	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPv	B assess	ment	
Product/ingredient name	PBT	Р	

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
Zinc oxide	No	No	No	No	No	No	No	
Propylene glycol	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	Yes	No	No	No	
Kaolin	No	No	No	No	No	No	No	
phthalic anhydride	No	No	No	No	No	No	No	
Ammonia	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	
Formaldehyde	No	No	No	Yes	No	No	No	

12.6 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. : 080111\*, 200127\* **European waste** catalogue (EWC) Packaging Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. **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	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.

14.6 Special precautions for	1	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in
		the event of an accident or spillage.

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

## **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.

#### **Prior Informed Consent (PIC)**

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

Product/ingredient name	%	Designation [Usage]
AITAMAALI	≥90	3
Formaldehyde	<0.1	72

#### Seveso Directive

#### This product is not controlled under the Seveso Directive.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Formaldehyde	EH40/2005 WELs	-	Carc	-

#### EU regulations

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SECTION 15: Regula	tory information
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
International regulations	
Chemical Weapon Convent	ion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention on F	Persistent Organic Pollutants
Not listed.	
Rotterdam Convention on P	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 in	nformation
Indicates information that h	as changed from previously issued version.

	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 derive the classification

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.		
H311	Toxic 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.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H335	May cause respiratory irritation.		
H341	Suspected of causing genetic defects.		
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SECTION 16: Other information		
H350	May cause 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

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. 1B	CARCINOGENICITY - Category 1B
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
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
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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revision	
Date of previous issue	No previous validation
Version	: 1
	AITAMAALI All variants

#### 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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