SAFETY DATA SHEET

SAKU - All variants



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

1.1 Product identifier

Product name : SAKU - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

National contact

Teknos (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

1.4 Emergency telephone number

National advisory body/Poison Centre
Telephone number : NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to UK CLP/GHS</u>

Skin Sens. 1, H317 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

Hazard pictograms



Signal word : Warning

Hazard statements: H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : P102 - Keep out of reach of children.

Prevention : P280 - Wear protective gloves.
P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage : Not applicable.

Date of issue/Date of revision : 25/08/2022 Date of previous issue : No previous validation Version : 1 1/18

SAKU - All variants Label No :38946

SECTION 2: Hazards identification

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: 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 DCOIT and EGForm and C(M)IT/MIT (3:1) and OIT. Risk of skin sensitisation.

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

: Not applicable.

2.3 Other hazards

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 : None known.

SECTION 3: Composition/information on ingredients

Latera Consultation

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	[1] [*]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	[1] [2]
(Z)-9-Octadecen-1-ol ethoxylated	EC: 500-016-2 CAS: 9004-98-2	≤0.3	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1)	[1]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.12	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]
4,5-dichloro-2-octyl-2H-isothiazol- 3-one	EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8	≤0.022	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	[1]
Ammonia	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]

Date of issue/Date of revision

: 25/08/2022 Date of previous issue

: No previous validation

Version: 1

2/18

SAKU - All variants Label No: 38946

SECTION 3: Composition/information on ingredients reaction mass of: 5-chloro-CAS: 55965-84-9 <0.0015 Acute Tox. 3, H301 [1] 2-methyl-4-isothiazolin-3-one [EC Index: 613-167-00-5 Acute Tox. 2, H310 no. 247-500-7] and 2-methyl-2H-Acute Tox. 2, H330 isothiazol-3-one [EC no. Skin Corr. 1C. H314 220-239-6] (3:1) Eve Dam. 1. H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100)Aquatic Chronic 1, H410 (M=100) **EUH071** REACH #: ≤0.1 Acute Tox. 4, H302 Diethylene glycol [1] [2] 01-2119457857-21 EC: 203-872-2 CAS: 111-46-6 Acute Tox. 3, H301 Formaldehyde REACH #: < 0.01 [1] [2] 01-2119488953-20 Acute Tox. 3, H311 EC: 200-001-8 Acute Tox. 2, H330 Skin Corr. 1B, H314 CAS: 50-00-0 Index: 605-001-00-5 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2. H341 Carc. 1B, H350 **STOT SE 3, H335** Aquatic Acute 1, H400 (M=1)Aquatic Chronic 1, H410 (M=10) See Section 16 for the full text of the H statements declared

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
- [2] Substance with a workplace exposure limit
- [*] 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 ≤ 10 µm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. 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.

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.

Date of issue/Date of revision : 25/08/2022 Version :1 3/18 Date of previous issue : No previous validation Label No: 38946

SECTION 4: First aid measures

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 aloves.

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 : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

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

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

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

Date of issue/Date of revision : 25/08/2022 Version:1 4/18 Date of previous issue : No previous validation Label No: 38946

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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). Water polluting material. May be harmful to the environment if released in large quantities.

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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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

Do not store below the following temperature: 5°C (41°F). 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)

Date of issue/Date of revision : 25/08/2022 Date of previous issue 5/18 : No previous validation Version: 1 SAKU - All variants Label No: 38946

SECTION 7: Handling and storage

Recommendations : Not available. : Not available. Industrial sector specific

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 1/2020). 2-(2-butoxyethoxy)ethanol

> TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. STEL: 101.2 mg/m³ 15 minutes.

Ammonia EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia]

> STEL: 25 mg/m3 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m³ 8 hours. Form: anhydrous

Diethylene glycol EH40/2005 WELs (United Kingdom (UK), 1/2020).

> TWA: 101 mg/m³ 8 hours. TWA: 23 ppm 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Formaldehyde

STEL: 2.5 mg/m³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m³ 8 hours.

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
titanium dioxide	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Oral	700 mg/kg bw/day	General population	Systemic
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	5 mg/kg	General	Systemic
	DNEL	Long term	bw/day 40.5 mg/m³	population General population	Local
	DNEL	Long term Inhalation	40.5 mg/m³		Systemic
	DNEL	Long term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	60.7 mg/m ³		Local
	DNEL	Long term Inhalation	67.5 mg/m³		Local
	DNEL	Long term Inhalation	67.5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	101.2 mg/ m ³	Workers	Local
(Z)-9-Octadecen-1-ol ethoxylated	DNEL	Long term Oral	25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	87 mg/m³	General population	Systemic
	DNEL	Long term	294 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1250 mg/	General	Systemic

Date of issue/Date of revision : 25/08/2022 Version :1 6/18 Date of previous issue : No previous validation SAKU - All variants Label No: 38946

SECTION 8: Exposure controls/personal protection

	0 . 0 .	ordonar proto			
			kg bw/day	population	
	DNEL	Long term Dermal	2080 mg/	Workers	Systemic
	DIVLL	Long term berman	kg bw/day	VVOIRCIS	Cysternic
	D. 151	l		\A./ I	
3-iodo-2-propynyl-butyl carbamate	DNEL	Long term	0.023 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term	0.07 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	1.16 mg/m ³	Workers	Local
	DIVLL		1.10 1119/111	VVOIRCIS	Local
	D. 151	Inhalation	4 40 / 2	\A./ I	
	DNEL	Long term	1.16 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	2 mg/kg	Workers	Systemic
			bw/day		-
reaction mass of: 5-chloro-2-methyl-	DNEL	Long term	0.02 mg/m ³	General	Local
4-isothiazolin-3-one [EC no.	DIVLL	Inhalation	0.02 mg/m	population	Local
		IIIIIaiaiiOII		population	
247-500-7] and 2-methyl-2H-					
isothiazol-3-one [EC no. 220-239-6]					
(3:1)					
	DNEL	Long term	0.02 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	0.04 mg/m ³	General	Local
	DIVLL	Inhalation	0.04 mg/m		Local
	DAIEL		0.04/3	population	1 1
	DNEL	Short term	0.04 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Oral	0.09 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Short term Oral	0.11 mg/	General	Systemic
	0.122	Short tonn Gran	kg bw/day	population	Gyotolino
Diethylene alveel	חאבו	Long torm		General	Local
Diethylene glycol	DNEL	Long term	12 mg/m³		Local
		Inhalation		population	
	DNEL	Long term	12 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	60 mg/m ³	Workers	Local
		Inhalation	J. J.		
	DNEL	Long term Dermal	21 mg/kg	General	Systemic
	DIVLL	Long term berman			Cysternic
	DAIEL		bw/day	population	0
	DNEL	Long term Dermal	43 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	44 mg/m³	Workers	Systemic
		Inhalation			
Formaldehyde	DNEL	Long term Dermal	0.012 mg/	General	Local
,			cm ²	population	
	DNEL	Long term Dermal	0.037 mg/	Workers	Local
	DIVEL	Long term Demial		VVUINCIS	Local
	האבי	1 4	cm²	0	
	DNEL	Long term	0.1 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	3.2 mg/m ³	General	Systemic
		Inhalation		population	-
	DNEL	Long term Oral	4.1 mg/kg	General	Systemic
			bw/day	population	- ,
	חאבו	Long torm		Workers	Systemic
	DNEL	Long term	9 mg/m³	VVOINCIS	Systemic
	D	Inhalation	400 "		
	DNEL	Long term Dermal	102 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	240 mg/kg	Workers	Systemic
			bw/day		•
	DNEL	Long term	0.375 mg/	Workers	Local
	DIVEL	Inhalation	m ³	VVOINCIS	Local
	חאבי			\\/	
	DNEL	Short term	0.75 mg/m ³	vvorkers	Local
		Inhalation			

PNECs

No PNECs available

8.2 Exposure controls

Date of issue/Date of revision: 25/08/2022Date of previous issue: No previous validationVersion: 17/18SAKU - All variantsLabel No :38946

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

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. Contaminated work clothing should not be allowed out of the workplace. 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

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

.

Ingredient name	°C	°F	Method
water	100	212	
2-(2-butoxyethoxy)ethanol	225 to 227.6	437 to 441.7	

Date of issue/Date of revision: 25/08/2022Date of previous issue: No previous validationVersion: 18/18SAKU - All variantsLabel No :38946

SECTION 9: Physical and chemical properties

Flammability (solid, gas) : Not available. Upper/lower flammability or Lower: 0.8% Upper: 9.4% **explosive limits**

: Closed cup: >100°C (>212°F) Flash point

Auto-ignition temperature

Ingredient name	°C	°F	Method
2-(2-butoxyethoxy)ethanol	210	410	DIN 51794

Decomposition temperature : Not available. pН : Not available. Not available. **Viscosity**

Solubility(ies)

Not available.

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

water

Vapour pressure

	V	Vapour Pressure at 20°C			Vapour pressure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	23.8	3.2				
2-(2-butoxyethoxy)ethanol	0.02	0.0027				

Relative density : Not available. : 1.3 g/cm³ **Density** Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties** : Not available.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

10.2 Chemical stability : The product is stable.

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous : Under normal conditions of storage and use, hazardous decomposition products should not be produced. decomposition products

Date of issue/Date of revision : 25/08/2022 Date of previous issue Version:1 : No previous validation

9/18

SAKU - All variants Label No: 38946

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
,	LD50 Oral	Rat	4500 mg/kg	-
3-iodo-2-propynyl-butyl carbamate	LC50 Inhalation Dusts and mists	Rat	0.67 g/m³	4 hours
	LC50 Inhalation Dusts and mists	Rat	0.763 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
4,5-dichloro-2-octyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.26 mg/l	4 hours
	LD50 Dermal	Rabbit	>652 mg/kg	-
	LD50 Oral	Rat	1585 mg/kg	-
Ammonia	LD50 Oral	Rat	350 mg/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7]	LD50 Oral	Rat	53 mg/kg	-
and 2-methyl-2H-isothiazol-				
3-one [EC no. 220-239-6] (3: 1)				
Diethylene glycol	LD50 Dermal	Rabbit	11890 mg/kg	-
	LD50 Oral	Rat	12000 mg/kg	-
Formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
Inhalation (dusts and mists)	581.9 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug I	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
(7) 0 0 1 1 1 1 1 1	Eyes - Severe irritant	Rabbit	-	20 mg	-
(Z)-9-Octadecen-1-ol ethoxylated	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
3-iodo-2-propynyl-butyl carbamate	Eyes - Severe irritant	Rabbit	-	-	-
Ammonia	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-
	Eyes - Severe irritant	Rabbit	-	250 ug	-
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)	Skin - Severe irritant	Human	-	0.01 %	-
Diethylene glycol	Eyes - Mild irritant	Rabbit	-	50 mg	-
	Skin - Mild irritant	Human	-	72 hours 112 mg I	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Formaldehyde	Eyes - Mild irritant	Human	-	6 minutes 1 ppm	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 ug	-

Date of issue/Date of revision : 25/08/2022 Date of previous issue : No previous validation Version : 1

SAKU - All variants

Version :1 **10/18 Label No** :38946

SECTION 11: Toxicological information

	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Mild irritant	Human	-	72 hours 150	-
				ug l	
	Skin - Mild irritant	Rabbit	-	540 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Severe irritant	Human	-	0.01 %	-
	Skin - Severe irritant	Rabbit	-	0.8 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	

Conclusion/Summary

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

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
3-iodo-2-propynyl-butyl carbamate	skin	Guinea pig	Not sensitizing

Conclusion/Summary

: May cause an allergic skin reaction.

Mutagenicity

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

Conclusion/Summary

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

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.

Conclusion/Summary

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

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
3-iodo-2-propynyl-butyl carbamate	Negative	-	Negative			13 days; 7 days per week
	Positive	-	Negative			13 days; 7 days per week

Conclusion/Summary

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

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl-butyl carbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

Conclusion/Summary

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ammonia	Category 3	-	Respiratory tract irritation
Formaldehyde	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3-iodo-2-propynyl-butyl carbamate	Category 1	-	larynx

Aspiration hazard

Date of issue/Date of revision: 25/08/2022Date of previous issue: No previous validationVersion: 111/18SAKU - All variantsLabel No :38946

SECTION 11: Toxicological information

Not available.

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Delayed and immediate effects 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 effects

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.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 μg/l Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
3-iodo-2-propynyl-butyl carbamate	Acute EC50 0.022 mg/l Fresh water	Algae - Algae - Scenedemus subspicatus	72 hours
	Acute EC50 0.16 mg/l Fresh water	Daphnia - Daphnia - Daphnia magna	48 hours
	Acute LC50 0.067 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours

Date of issue/Date of revision: 25/08/2022Date of previous issue: No previous validationVersion: 112/18SAKU - All variantsLabel No :38946

SECTION 12: Ecological information

			,
		mykiss	
	Acute NOEC 0.049 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
		mykiss	
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - Daphnia - Daphnia	21 days
		Magna	
4,5-dichloro-2-octyl-2H-	Acute EC50 0.003 mg/l Fresh water	Algae - Green algae -	72 hours
isothiazol-3-one		Pseudokirchneriella subcapitata	
	Acute EC50 18 ppb Marine water	Algae - Diatom - Skeletonema	96 hours
		costatum	
	Acute EC50 0.001 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna	
	Acute LC50 22 µg/l Fresh water	Crustaceans - Scud -	48 hours
		Gammarus pulex	
	Acute LC50 2.7 ppb Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 19.789 µg/l Marine	Algae - Diatom - Nitzschia	96 hours
	water	pungens	
	Chronic NOEC 0.56 ppb	Fish - Rainbow trout,donaldson	97 days
	''	trout - Oncorhynchus mykiss	
Ammonia	Acute LC50 37 ppm Fresh water	Fish - Western mosquitofish -	96 hours
	11	Gambusia affinis - Adult	
Diethylene glycol	Acute LC50 75200000 µg/l Fresh water	Fish - Fathead minnow -	96 hours
, 3,	13.	Pimephales promelas	
Formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - Green algae -	72 hours
,	ů .	Desmodesmus subspicatus	
	Acute EC50 0.788 mg/l Marine water	Algae - Green algae - Ulva	96 hours
	3.	pertusa	
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - Water flea -	48 hours
	g,	Ceriodaphnia dubia - Neonate	
	Acute EC50 5800 µg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
	1 3	pulex - Neonate	
	Acute LC50 1.41 ppm Fresh water	Fish - Rainbow trout,donaldson	96 hours
	7 ком 2000 г. г. рр. г. г. ост. паке.	trout - Oncorhynchus mykiss	001100110
	Chronic NOEC 0.005 mg/l Marine	Algae - Haptophyte - Isochrysis	96 hours
	water	galbana - Exponential growth	
		phase	
	Chronic NOEC 953.9 ppm Fresh water	Fish - Chinook salmon -	43 days
	Similar No Zo occio ppini i rocii water	Oncorhynchus tshawytscha -	.5 44,5
		Egg	
		-33	

Conclusion/Summary: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary: This product has not been tested for biodegradation.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol 3-iodo-2-propynyl-butyl carbamate	1 >1	-	low low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Date of issue/Date of revision: 25/08/2022Date of previous issue: No previous validationVersion: 113/18SAKU - All variantsLabel No :38946

SECTION 12: Ecological information

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

: No known significant effects or critical hazards. 12.6 Other adverse effects

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.

Hazardous waste

European waste catalogue (EWC) : The classification of the product may meet the criteria for a hazardous waste.

: 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	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

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

14.7 Transport in bulk according to IMO instruments

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

Date of issue/Date of revision : 25/08/2022 Version :1 14/18 Date of previous issue : No previous validation Label No: 38946

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 : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

Date of issue/Date of revision : 25/08/2022 Date of previous issue Version:1 15/18 : No previous validation Label No: 38946

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Skin Sens. 1, H317 Aquatic Chronic 3, H412	Calculation method Calculation method

Full text of abbreviated H statements

H301 H302	Toxic if swallowed. 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
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

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
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - 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

Date of issue/Date of revision : 25/08/2022 Date of previous issue Version :1 16/18

SAKU - All variants

: No previous validation

Label No: 38946

SECTION 16: Other information

Date of issue/ Date of

revision

: 25/08/2022

Date of previous issue

: No previous validation

Version : 1

SAKU 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.

Date of issue/Date of revision: 25/08/2022Date of previous issue: No previous validationVersion: 117/18

SAKU - All variants Label No :38946

 Date of issue/Date of revision
 : 25/08/2022
 Date of previous issue
 : No previous validation
 Version
 : 1
 18/18

SAKU - All variants Label No :38946