SAFETY DATA SHEET



KIRJO TILE - All variants

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

1.1 Product identifier

: KIRJO TILE - All variants **Product name**

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

1.4 Emergency telephone number

National advisory body/Poison Centre

: In an emergency, call 112 Telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317

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

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.

Storage : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

national and international regulations.

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SECTION 2: Hazards identification

Hazardous ingredients

: Contains: 2,4,7,9-tetramethyl-5-decyne-4,7-diol; 4,5-dichloro-2-octyl-2H-isothiazol-3-one; 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)

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 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

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

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	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
Dipropyleneglycolmethylether	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤3	Not classified.	-	[2]
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	≤0.3	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	<0.1	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]
C16-18-(even numbered, saturated and unsaturated)-alkylamines	REACH #: 01-2119473797-19 CAS: 1213789-63-9	≤0.023	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (oral) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1,	ATE [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 10	[1]

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SECTION 3: Composition/information on ingredients ATE [Oral] = 567 4,5-dichloro-2-octyl-2H-EC: 264-843-8 ≤0.021 Acute Tox. 4, H302 [1] isothiazol-3-one CAS: 64359-81-5 Acute Tox. 2, H330 mg/kg Index: 613-335-00-8 Skin Corr. 1, H314 ATE [Inhalation Eye Dam. 1, H318 (dusts and mists)] Skin Sens. 1A, H317 = 0.16 mg/lSkin Corr. 1, H314: Aguatic Acute 1, H400 Aquatic Chronic 1, C ≥ 5% H410 Skin Irrit. 2. H315: **EUH071** $0.025\% \le C < 5\%$ Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: $0.025\% \le C < 3\%$ Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100 1,2-benzisothiazol-3(2H)-EC: 220-120-9 < 0.036 Acute Tox. 4, H302 ATE [Oral] = 450 [1] Acute Tox. 2. H330 one CAS: 2634-33-5 mg/kg ATE [Inhalation Index: 613-088-00-6 Skin Irrit. 2, H315 Eye Dam. 1, H318 (dusts and mists)] Skin Sens. 1A, H317 = 0.21 mg/lSkin Sens. 1, H317: Aquatic Acute 1, H400 Aquatic Chronic 1, C ≥ 0.036% H410 M [Acute] = 1 M [Chronic] = 1reaction mass of: 5-chloro-EC: 911-418-6 < 0.0015 Acute Tox. 3, H301 ATE [Oral] = 53 mg/ [1] 2-methyl-4-isothiazolin-Acute Tox. 2, H310 CAS: 55965-84-9 3-one [EC no. 247-500-7] Acute Tox. 2. H330 ATE [Dermal] = 50 Index: 613-167-00-5 and 2-methyl-2H-isothiazol-Skin Corr. 1C, H314 mg/kg 3-one [EC no. 220-239-6] Eye Dam. 1, H318 ATE [Inhalation (3:1)Skin Sens. 1A, H317 (vapours)] = 0.5Aquatic Acute 1, H400 mg/l Skin Corr. 1C, Aquatic Chronic 1, H410 H314: C ≥ 0.6% Eye Dam. 1, H318: **EUH071** C ≥ 0.6% Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 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.

Type

- [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.

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eve contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. 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.

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

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

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.

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SECTION 5: Firefighting measures

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, 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. 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 spilt 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.

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.

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SECTION 7: Handling and storage

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
D ipropyleneglycolmethylether	Regulation on Limit Values - MAC (Austria, 4/2021) [Dipropylenglykolmonomethylether (Isomerengemisch)] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 307 mg/m³. CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 614 mg/m³ 8 times per shift.
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m³.
D ípropyleneglycolmethylether	Limit values (Belgium, 12/2023) [Dipropyleenglycolmonomethylether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.
D ipropyleneglycolmethylether	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [2-(Methoxymethyletoxy)propanol] Absorbed through skin. Limit value 8 hours: 308 mg/m³. Limit value 8 hours: 50 ppm.
万 propyleneglycolmethylether	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [(2-metoksimetiletoksi)-propanol] Absorbed through skin. ELV 8 hours: 308 mg/m³. ELV 8 hours: 50 ppm.
Propylene glycol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) ELV 8 hours: 10 mg/m³. Form: only particles. ELV 8 hours: 474 mg/m³. Form: total vapour and particles. ELV 8 hours: 150 ppm. Form: total vapour and particles.

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Dipropyleneglycolmethylether

Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.

Dipropyleneglycolmethylether

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [(2-methoxymethylethoxy)propanol]

Absorbed through skin.
TWA 8 hours: 270 mg/m³.
TWA 8 hours: 43.8 ppm.
STEL 15 minutes: 550 mg/m³.
STEL 15 minutes: 89.3 ppm.

Dipropyleneglycolmethylether

Working Environment Authority (Denmark, 3/2024) [dipropylenglycolmethylether] Absorbed through skin.

TWA 8 hours: 50 ppm.
TWA 8 hours: 309 mg/m³.
STEL 15 minutes: 618 mg/m³.
STEL 15 minutes: 100 ppm.

Dipropyleneglycolmethylether

Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [dipropüleenglükooli monometüüleeter] Absorbed

through skin.

TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm.

Dipropyleneglycolmethylether

EU OEL (Europe, 1/2022) [(2-Methoxymethylethoxy)-propanol]

Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.

Dipropyleneglycolmethylether

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [(2-Metoksimetyylietoksi)-propanoli]

Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 310 mg/m³.

Dipropyleneglycolmethylether

Ministry of Labor (France, 6/2024) [(2-méthoxyméthyléthoxy)-

propanol] Absorbed through skin.

TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 308 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

pipropyleneglycolmethylether

TRGS 900 OEL (Germany, 6/2024) [(2-Methoxymethylethoxy) propanol]

TWA 8 hours: 310 mg/m³. PEAK 15 minutes: 310 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 50 ppm.

DFG MAC-values list (Germany, 7/2023) [Dipropylene glycol monomethyl ether] Develop D.

TWA 8 hours: 50 ppm.

PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 310 mg/m³.

PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour].

3-iodo-2-propynyl-butyl carbamate

TRGS 900 OEL (Germany, 6/2024) Skin sensitiser.

PEAK 15 minutes: 0.116 mg/m³. PEAK 15 minutes: 0.01 ppm. TWA 8 hours: 0.058 mg/m³. TWA 8 hours: 0.005 ppm.

DFG MAC-values list (Germany, 7/2023) Develop C. Skin

ensitiser.

PEAK 15 minutes: 0.116 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 0.01 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 0.058 mg/m³. TWA 8 hours: 0.005 ppm.

DFG MAC-values list (Germany, 7/2023) Skin sensitiser.

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

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Dipropyleneglycolmethylether Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [μεθοξυμεθυλ-αιθοξυ-προπανόλη, 2-] Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 900 mg/m³. **D**ipropyleneglycolmethylether 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [(2-metoximetiletoxi)-propanol] TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm. **D**ipropyleneglycolmethylether Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [Díprópýlenglýkólmetýleter] Absorbed through skin. TWA 8 hours: 300 mg/m³. TWA 8 hours: 50 ppm. **Dipropyleneglycolmethylether** NAOSH (Ireland, 4/2024) [(2-methoxymethylethoxy)-1-propanol] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 308 mg/m3. NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Propylene glycol Limit Values (OELVs) OELV 8 hours: 10 mg/m³. Form: particulate. OELV 8 hours: 470 mg/m³. Form: vapour and particulates. OELV 8 hours: 150 ppm. Form: vapour and particulates. Dipropyleneglycolmethylether Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 308 mg/m³. **D**ipropyleneglycolmethylether Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Metoksipropoksi propanols] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³. Propylene glycol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) TWA 8 hours: 7 mg/m³. **D**ipropyleneglycolmethylether Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 450 mg/m³. STEL 15 minutes: 75 ppm. Propylene glycol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 7 mg/m³. **D**ipropyleneglycolmethylether Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [(2-méthoxyméthyléthoxy)-propanol] Absorbed through skin. TWA 8 hours: 50 ppm.

TWA 8 hours: 308 mg/m³.

Dipropyleneglycolmethylether EU OEL (Europe, 1/2022) [(2-Methoxymethylethoxy)-propanol]

Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.

Ministry of Social Affairs and Employment, Legal limit values **D**ipropyleneglycolmethylether (Netherlands, 5/2024) [dipropyleenglycolmethylether]

> TWA 8 hours: 300 mg/m³. TWA 8 hours: 48.7 ppm.

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Dipropyleneglycolmethylether

FOR-2011-12-06-1358 (Norway, 12/2022) [

(2-metoksymetyletoksy)-propanol] Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³.

Propylene glycol

FOR-2011-12-06-1358 (Norway, 12/2022)

TWA 8 hours: 79 mg/m³. TWA 8 hours: 25 ppm.

Dipropyleneglycolmethylether

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) [dipropylene glycol methyl ether] Absorbed through skin.

TWA 8 hours: 240 mg/m³. STEL 15 minutes: 480 mg/m³.

Propylene glycol

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023)

TWA 8 hours: 100 mg/m³. Form: vapor and inhalable fraction.

Portuguese Institute of Quality (Portugal, 11/2014) [2-metoximetiletoxipropanol] Absorbed through skin.

TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.

pipropyleneglycolmethylether

Dipropyleneglycolmethylether

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.

VLA 8 hours: 308 mg/m³. VLA 8 hours: 50 ppm.

Dipropyleneglycolmethylether

Government regulation SR c. 355/2006 (Slovakia, 7/2024) [2-metoxymetyl-etoxypropanol] Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 308 mg/m³ (2-methoxymetyl-ethoxypropanol). TWA 8 hours: 50 ppm (2-methoxymetyl-ethoxypropanol).

Dipropyleneglycolmethylether

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [(2-metoksimetiletoksi)propanol] Absorbed through skin.

TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm.

KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 308 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

3-iodo-2-propynyl-butyl carbamate

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

KTV 15 minutes: 0.01 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 0.005 ppm.

KTV 15 minutes: 0.116 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 0.058 mg/m³.

propyleneglycolmethylether

National institute of occupational safety and health (Spain, 1/2024) [éter metílico de dipropilenglicol] Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.

Dipropyleneglycolmethylether

Work environment authority Regulation 2018:1 (Sweden, 11/2022) [dipropylene glycol monomethyl ether] Absorbed

through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 450 mg/m³.

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Dipropyleneglycolmethylether SUVA (Switzerland, 1/2024) [Dipropylenglykolmethylether (Isomerengemisch)] STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 300 mg/m³. Form: vapour and aerosols. TWA 8 hours: 50 ppm. Form: vapour and aerosols. TWA 8 hours: 300 mg/m³. Form: vapour and aerosols. SUVA (Switzerland, 1/2024) Sensitiser. 3-iodo-2-propynyl-butyl carbamate STEL 15 minutes: 0.24 mg/m³. Form: vapour and aerosols. STEL 15 minutes: 0.02 ppm. Form: vapour and aerosols. TWA 8 hours: 0.01 ppm. Form: vapour and aerosols. TWA 8 hours: 0.12 mg/m³. Form: vapour and aerosols. SUVA (Switzerland, 1/2024) Sensitiser. reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and STEL 15 minutes: 0.4 mg/m³. Form: Inhalable fraction. 2-methyl-2H-isothiazol-3-one [EC no. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction. 220-239-6] (3:1) No exposure limit value known.

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	

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No exposure indices known.

No exposure indices known.

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name

titanium dioxide

Result

DNEL - General population - Long term - Inhalation

28 μg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

170 µg/m³ Effects: Local

Dipropyleneglycolmethylether DNEL - General population - Long term - Oral

36 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

37.2 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

121 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal

283 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

308 mg/m³ Effects: Systemic

2,4,7,9-tetramethyl-5-decyne-4,7-diol

DNEL - General population - Long term - Oral

0.29 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

0.29 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation

0.505 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal

0.812 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.86 mg/m³ Effects: Systemic

3-iodo-2-propynyl-butyl carbamate

DNEL - Workers - Long term - Inhalation

0.023 mg/m³

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Effects: Systemic

DNEL - Workers - Short term - Inhalation

0.07 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

1.16 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

1.16 mg/m³ Effects: Local

DNEL - Workers - Long term - Dermal

2 mg/kg bw/day Effects: Systemic

C16-18-(even numbered, saturated and **DNEL - General population - Long term - Inhalation**

0.035 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

40 μg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation

0.38 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

1 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation

1 mg/m³ Effects: Local

1,2-benzisothiazol-3(2H)-one DNEL - General population - Long term - Dermal

0.345 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

0.966 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

1.2 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

6.81 mg/m³ Effects: Systemic

DNEL - General population - Long term - Inhalation

0.02 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

0.02 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

0.04 mg/m³ Effects: Local

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220-239-6] (3:1)

reaction mass of: 5-chloro-2-methyl-

2-methyl-2H-isothiazol-3-one [EC no.

4-isothiazolin-3-one [EC no. 247-500-7] and

unsaturated)-alkylamines

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DNEL - Workers - Short term - Inhalation

0.04 mg/m³ 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

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 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.

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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: VariousOdour: 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	
Propylene glycol	188.2	370.8	

Flammability : Not available.

Lower and upper explosion : Lower: 1.1% ((2-methoxymethylethoxy)propanol)
Upper: 14% ((2-methoxymethylethoxy)propanol)

Flash point :

	Closed cup			ıp		
Ingredient name	°C	°F	Method	°C	°F	Method
propyleneglycolmethylether	75	167	ISO 1523			
Propylene glycol	99	210.2				

Auto-ignition temperature

Ingredient name	°C	°F	Method
Dipropyleneglycolmethylether	207	404.6	EU A.15
Propylene glycol	371	699.8	

Decomposition temperature: Not available.

PH : **8**.5 to 9.2 [Conc. (% w/w): 100%]

ŧ

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure :

	Va	Vapour Pressure at 20°C			Vapour pressure at 5		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	17.5	2.3					
Propylene glycol	0.15	0.02	EU A.4				

Relative density : Not available.

Density : 1.2 g/cm³

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

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SECTION 9: Physical and chemical properties

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 in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name Result

3-iodo-2-propynyl-butyl carbamate 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/m³ [4 hours]

4,5-dichloro-2-octyl-2H-isothiazol-3-one Rat - Oral - LD50

1585 mg/kg

OECD [Acute Oral Toxicity]

Rabbit - Dermal - LD50

>652 mg/kg

OECD [Acute Dermal Toxicity]

Rat - Male, Female - Inhalation - LC50 Dusts and mists

0.26 mg/l [4 hours]

OECD [Acute Inhalation Toxicity]

1,2-benzisothiazol-3(2H)-one Rat - Oral - LD50

1020 mg/kg

reaction mass of: 5-chloro-2-methyl4-isothiazolin-3-one [EC no. 247-500-7] and

Rat - Oral - LD50
53 mg/kg

2-methyl-2H-isothiazol-3-one [EC no. 247-300-7] and 53 mg

220-239-6] (3:1)

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -

Respiratory depression

Conclusion/Summary [Product]: Not available.

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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)
3-iodo-2-propynyl-butyl carbamate C16-18-(even numbered, saturated and unsaturated)-alkylamines	400 500	N/A N/A	N/A N/A	N/A N/A	0.67 N/A
4,5-dichloro-2-octyl-2H-isothiazol-3-one 1,2-benzisothiazol-3(2H)-one 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)	567 450 53	N/A N/A 50	N/A N/A N/A	N/A N/A 0.5	0.16 0.21 N/A

Skin corrosion/irritation

Product/ingredient name Result

titanium dioxide Human - Skin - Mild irritant

> Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I

Dipropyleneglycolmethylether Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

2,4,7,9-tetramethyl-5-decyne-4,7-diol Rabbit - Skin - Mild irritant

Amount/concentration applied: 0.5 gm

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-4-isothiazolin-3-one [EC no. 247-500-7] and

2-methyl-2H-isothiazol-3-one [EC no.

220-239-6] (3:1)

Human - Skin - Severe irritant

Amount/concentration applied: 0.01 %

Conclusion/Summary [Product]: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Dipropyleneglycolmethylether **Human - Eyes - Mild irritant** Amount/concentration applied: 8 mg

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

2,4,7,9-tetramethyl-5-decyne-4,7-diol Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.1 MI

3-iodo-2-propynyl-butyl carbamate Rabbit - Eyes - Severe irritant

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product]: Not available.

Respiratory or skin sensitization

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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 Result

3-iodo-2-propynyl-butyl carbamate In vitro - Bacteria

Result: Negative

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 **Result**

3-iodo-2-propynyl-butyl carbamate Rabbit - Female - Oral

50 mg/kg [7 days per week] [13 days]

Maternal toxicity: Positive Developmental: Negative

Rabbit - Female - Oral

20 mg/kg [7 days per week] [13 days]

Maternal toxicity: Negative **Developmental**: Negative

Conclusion/Summary [Product]: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

€16-18-(even numbered, saturated and

unsaturated)-alkylamines

STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

3-iodo-2-propynyl-butyl carbamate STOT RE 1, H372 (larynx) C16-18-(even numbered, saturated and STOT RE 2, H373 (oral)

unsaturated)-alkylamines

Aspiration hazard

Product/ingredient name Result

C16-18-(even numbered, saturated and

unsaturated)-alkylamines

Information on likely routes of exposure

Not available.

Potential acute health effects

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ASPIRATION HAZARD - Category 1

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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

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]: Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : 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

tranium 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

2,4,7,9-tetramethyl-5-decyne-4,7-diol LC50

Fish - Cyprinus carpio 42 mg/l [96 hours]

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EC50

Daphnia - *Daphnia magna* 91 mg/l [48 hours]

3-iodo-2-propynyl-butyl carbamate

Acute - LC50 - Fresh water

ΕU

Fish - Trout - *Oncorhynchus mykiss* 0.067 mg/l [96 hours]

Acute - NOEC - Fresh water

ΕU

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

Acute - EC50 - Fresh water

FH

Daphnia - Daphnia - Daphnia magna 0.16 mg/l [48 hours]

Chronic - NOEC - Fresh water

FH

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

Acute - EC50 - Fresh water

Εl

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

C16-18-(even numbered, saturated and unsaturated)-alkylamines

Acute - LC50

Fish

4.21 mg/l [96 hours]

Acute - EC50

Daphnia

0.98 mg/l [48 hours]

Acute - EC50

Algae

0.46 mg/l [72 hours]

4,5-dichloro-2-octyl-2H-isothiazol-3-one

Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata* 0.003 mg/l [72 hours]

Effect: Population

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

0.001 mg/l [48 hours] Effect: Intoxication

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 1.2 g 2.7 ppb [96 hours] Effect: Mortality

Chronic - NOEC

US EPA

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

0.56 ppb [97 days] Effect: Growth

Chronic - NOEC - Marine water

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OECD

Algae - Diatom - Nitzschia pungens

19.789 μg/l [96 hours] Effect: Population

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

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

Result

√2-benzisothiazol-3(2H)-one

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24% [28 days]

Conclusion/Summary [Product]: Not available.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
D ipropyleneglycolmethylether	0.004	-	Low
3-iodo-2-propynyl-butyl	>1	-	Low
carbamate			
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
2,4,7,9-tetramethyl-5-decyne-4,7-diol	1.92	83.8929
3-iodo-2-propynyl-butyl carbamate	1.13	13.4558
4,5-dichloro-2-octyl-2H-isothiazol-3-one	3.41	2562.01
1,2-benzisothiazol-3(2H)-one	1.86	73.142

Results of PMT and vPvM assessment

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PMT	P	M	T	vPvM	νP	νM
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
	No No No No No	No N	No No No No No No	No No No No No No No No	No No<	No No<

Mobility

: Not available.

Conclusion/Summary

: 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	
Dipropyleneglycolmethylether	No	No	No	No	No	No	No	
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No	
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No	
C16-18-(even numbered, saturated and unsaturated)-alkylamines	No	No	No	No	No	No	No	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	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	

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
Dipropyleneglycolmethylether	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
C16-18-(even numbered, saturated and unsaturated)-alkylamines	No	No	No	No	No	No	No
4,5-dichloro-2-octyl-2H-isothiazol-3-one	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]	No	No	No	No	No	No	No

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and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

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.

Conclusion/Summary [Product]

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	IATA
14.1 UN number or ID 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.

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SECTION 14: Transport information

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 Maritime transport in bulk according to IMO

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

instruments

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]
KIRJO TILE	≥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 applicable. Ozone depleting substances (EU 2024/590)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Austria

Limitation of the use of

: Permitted.

organic solvents

Belgium

Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Noirs de charbon	Listed
Silice	Listed
Silice	Listed

Czech Republic

Denmark

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SECTION 15: Regulatory information

Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Manium dioxide	Listed	-
Carbon black	Listed	-

MAL-code

: 00-3

Protection based on MAL

: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

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

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

MAL-code: 00-3

Application: During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

- Coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors and apron must be worn.

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

- Air-supplied full mask, coveralls and hood must be worn.

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

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

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

*See Regulations.

Restrictions on use

: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances

: Not listed

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

<u>Finland</u>

France

Social Security Code, Articles L 461-1 to L 461-7 : Dipropyleneglycolmethylether

RG 84

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SECTION 15: Regulatory information

Reinforced medical surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced

medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 1/2 **Hazardous incident ordinance**

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5 .2.1	Total dust	47.3
5.2.2 [III]	Dusty inorganic substances	0.029
5.2.5	Organic substances	7
5.2.5 [I]	Organic substances	2.9

AOX : The product contains organically bound halogens and can contribute to the AOX

value in waste water.

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

Water Discharge Policy

(ABM)

: A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic

environment. Decontamination effort: A

Norway

Product registration

number

: 672182

Sweden Switzerland

VOC content : Exempt.

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)

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

: ATE = Acute Toxicity Estimate

acronyms

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

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SECTION 16: Other information

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

Full text of abbreviated H statements

11004	Tarifa Marria Barra I
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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]

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
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EŸE ÎRRITATION - Category 1
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
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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