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

SAFETY DATA SHEET



TEKNOCLAD 3371-22 - TS 9010

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

1.1 Product identifier

Product name : TEKNOCLAD 3371-22 - TS 9010

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317 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		
Prevention	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.	
Response	302 + P352 - IF ON SKIN: Wash with plenty of water. 362 + P364 - Take off contaminated clothing and wash it before reuse	Э.
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, r national and international regulations.	egional,

SECTION 2: Hazards identification

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Hazardous ingredients	ł	Contains: 3-iodo-2-propynyl-butyl carbamate; 2,4,7,9-tetramethyl-5-decyne-4,7-diol; 4,5-dichloro-2-octyl-2H-isothiazol-3-one and 1,2-benzisothiazol-3(2H)-one
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 BIT and C(M)IT/MIT (3:1) and DTBMA and OIT and MBIT. 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
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<1	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.21	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
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]
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. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 567 mg/kg ATE [Inhalation (dusts and mists)] = 0.16 mg/l Skin Corr. 1, H314: $C \ge 5\%$ Skin Irrit. 2, H315: 0.025% $\le C < 5\%$ Eye Dam. 1, H318:	[1]
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				$C \ge 3\%$ Eye Irrit. 2, H319: 0.025% $\le C < 3\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		[1]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C \geq 0.6% Eye Dam. 1, H318: C \geq 0.6% Eye Irrit. 2, H319: 0.06% \leq C $<$ 0.6% Skin Sens. 1, H317: C \geq 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
			See Section 16 for the full text of the H statements declared above.		

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

[1] Substance classified with a health or environmental hazard

[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 \leq 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 firs	t 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.

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SECTION 4: First aid measures

Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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 fr	on	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: 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.

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SECTION 6: Accidental release measures

OLOTION 0. Accident	u	
6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. 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	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the 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.
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.

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SECTION 7: Handling and storage

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			
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbedthrough skin.TWA 8 hours: 20 ppm.TWA 8 hours: 98 mg/m³.PEAK 30 minutes: 40 ppm 4 times per shift.PEAK 30 minutes: 200 mg/m³ 4 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, 12/2024) [5-Chlor- 2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di- hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m ³ .			
2-Butoxyethanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .			
2-Butoxyethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 8 hours: 98 mg/m ³ . Limit value 15 minutes: 246 mg/m ³ . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.			
2-Butoxyethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 246 mg/m ³ . STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m ³ . ELV 8 hours: 20 ppm.			
2-Butoxyethanol	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ .			
2-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m ³ . STEL 15 minutes: 40.7 ppm.			
2-Butoxyethanol	Working Environment Authority (Denmark, 12/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm.			
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2 -Butoxyethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm.	
2-Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .	
2-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m ³ .	
2-Butoxyethanol	Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)	
2 -Butoxyethanol	 TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 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, 7/2024) Develop C. Skin sensitiser. PEAK 15 minutes: 0.116 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 0.058 mg/m³. TWA 8 hours: 0.058 mg/m³. 	
1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2024) Skin sensitiser.	
2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m ³ .	
2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . PEAK 15 minutes: 246 mg/m ³ . PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.	

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₽-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m ³ . TWA 8 hours: 20 ppm.		
₽-Butoxyethanol	 NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 98 mg/m³. OELV 15 minutes: 50 ppm. OELV 15 minutes: 246 mg/m³. 		
₽-Butoxyethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m ³ . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m ³ .		
₽-Butoxyethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .		
₽-Butoxyethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 50 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 100 mg/m ³ . STEL 15 minutes: 20 ppm.		
Z -Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .		
₽-Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .		
₽-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.		
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m ³ .		
2-Butoxyethanol	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, 7/2024) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 200 mg/m ³ .		
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.	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		

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220-239-6] (3:1)	environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) Absorbed through skin.		
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm. Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ .		
2-Butoxyethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m ³ . VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m ³ . Short term 15 minutes: 50 ppm.		
2-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 6/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm.		
2-Butoxyethanol	 Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 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/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 0.058 mg/m ³ .		
2 -Butoxyethanol	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 245 mg/m ³ . STEL 15 minutes: 50 ppm.		
2-Butoxyethanol	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .		
2-Butoxyethanol	SUVA (Switzerland, 1/2025) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m ³ . STEL 15 minutes: 20 ppm.		
3-iodo-2-propynyl-butyl carbamate	STEL 15 minutes: 98 mg/m ³ . SUVA (Switzerland, 1/2025) Sensitiser. STEL 15 minutes: 0.24 mg/m ³ . Form: vapour and aerosols. STEL 15 minutes: 0.02 ppm. Form: vapour and aerosols.		

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TWA 8 hours: 0.01 ppm. Form: vapour and aerosols. TWA 8 hours: 0.12 mg/m ³ . Form: vapour and aerosols. SUVA (Switzerland, 1/2025) Sensitiser.				
STEL 15 minutes: 0.4 mg/m ³ . Form: Inhalable fraction.				
TWA 8 hours: 0.2 mg/m ³ . Form: Inhalable fraction.				
EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed				
through skin.				
STEL 15 minutes: 50 ppm.				
TWA 8 hours: 25 ppm.				
STEL 15 minutes: 246 mg/m ³ .				
TWA 8 hours: 123 mg/m ³ .				

Biological exposure indices

Product/ingredient nam	e Exposure indices
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2- butoxyéthanol et son acétate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).
₽ -Butoxyethanol	 DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts. TRGS 903 - BEI Values (Germany, 10/2024) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	NAOSH BGVs (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end o shift - As soon as possible after exposure ceases.
No exposure indices known.	

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SECTION 8: Exposure	controls/personal protection
No exposure indices known.	
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	
✓Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
2-Butoxyethanol	National institute of occupational safety and health (Spain, 1/2024) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
No exposure indices known.	
2-Butoxyethanol	SUVA (Switzerland, 1/2025) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
✔-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
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	Result
₩anium dioxide	DNEL - General population - Long term - Inhalation 28 μg/m³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 170 μg/m³ <u>Effects</u> : Local
2-Butoxyethanol	DNEL - General population - Long term - Oral 6.3 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Oral 26.7 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 59 mg/m³ <u>Effects</u> : Systemic
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	DNEL - Workers - Long term - Inhalation 98 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 147 mg/m³ Effects: Local
	DNEL - Workers - Short term - Inhalation 246 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalatio 426 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 1091 mg/m ³ <u>Effects</u> : Systemic
3-iodo-2-propynyl-butyl carbamate	DNEL - Workers - Long term - Inhalation 0.023 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 0.07 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 1.16 mg/m ³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 1.16 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Dermal 2 mg/kg bw/day <u>Effects</u> : Systemic
2,4,7,9-tetramethyl-5-decyne-4,7-diol	DNEL - General population - Long term - Oral 0.29 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 0.29 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalatio 0.505 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 0.812 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 2.86 mg/m ³ <u>Effects</u> : Systemic
I,2-benzisothiazol-3(2H)-one	DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day

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

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

220-239-6] (3:1)

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

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

DNEL - Workers - Short term - Inhalation 0.04 mg/m³ Effects: Local

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

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

PNECs

Not available.

8.2 Exposure controls			
Appropriate engineering controls	ood general ventilation sho ontaminants.	uld be sufficient to control w	orker exposure to airborne
Individual protection meas			
Hygiene measures	efore eating, smoking and ppropriate techniques shou ontaminated work clothing	should not be allowed out of reusing. Ensure that eyew	end of the working period. tially contaminated clothing. f the workplace. Wash
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		
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	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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: White.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

Ingredient name	°C	°F	Method
Water	100	212	

Flammability	: Not available.
Lower and upper explosion limit	: Lower: Not applicable. Upper: Not applicable.
Flash point	: Closed cup: >100°C (>212°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
рН	: 8.2 to 8.9 [Conc. (% w/w): 100%]
Viscosity	: Not available.
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	:

Vapour Pressure at 20°C Vapour pressure at 50°C Ingredient name mm Hg kPa Method mm Hg kPa Method Water 17.5 2.3 Image: Colspan="3">Image: Colspan="3">Vapour pressure at 50°C

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SECTION 9: Physical and chemical properties Relative density : Not available. Density : 1.3 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 **Explosive properties** : Not available. : Not available. **Oxidising properties** 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 defin	ned in Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name Product/ingredient name Product/ingredient name	Result Rat - Oral - LD50 400 mg/kg
	Rat - Dermal - LD50 >2000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists 0.763 mg/l [4 hours]
	Rat - Inhalation - LC50 Dusts and mists 0.67 g/m ³ [4 hours]
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
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SECTION 11: Toxicological information

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) 1020 mg/kg

Rat - Oral - LD50

53 mg/kg

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

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FEKNOCLAD 3371-22	N/A	N/A	N/A	323.0	325.2
2-Butoxyethanol	1200	N/A	N/A	3	N/A
3-iodo-2-propynyl-butyl carbamate	400	N/A	N/A	N/A	0.67
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	N/A	N/A	N/A	0.16
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	53	50	N/A	0.5	N/A

Skin corrosion/irritation

on of control of a new second	
Product/ingredient name	
titanium dioxide	

2-Butoxyethanol

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

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

Result

Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 0.5 gm

Human - Skin - Mild irritant Duration of treatment/exposure: 48 hours Amount/concentration applied: 5 %

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

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)

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation Product/ingredient name 2-Butoxyethanol

Result

Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 mg

Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg

3-iodo-2-propynyl-butyl carbamate

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

Rabbit - Eyes - Severe irritant

Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI

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Conclusion/Summary [Product]	: Not available	е.
Respiratory corrosion/irritation		
Not available.		
Conclusion/Summary [Product]	: Not available	e.
Respiratory or skin sensitization		
Product/ingredient name		Result
3-iodo-2-propynyl-butyl carbamate		Guinea pig - skin <u>Result</u> : Not sensitizing
Skin		
Conclusion/Summary [Product]	: Not available	e.
Respiratory		
Conclusion/Summary [Product]	: Not available	е.
Germ cell mutagenicity		
Product/ingredient name		Result
了iodo-2-propynyl-butyl carbamate		In vitro - Bacteria <u>Result</u> : Negative
	• Not available	
Conclusion/Summary [Product]	. NOL available	5.
	. Not available	σ.
Carcinogenicity It has been observed that the carcin	ogenic hazard of	f this product arises when respirable dust is inhaled in quantities
Carcinogenicity It has been observed that the carcin leading to significant impairment of p	ogenic hazard of	f this product arises when respirable dust is inhaled in quantities
Carcinogenicity It has been observed that the carcin leading to significant impairment of p	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung.
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product]	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung.
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung.
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days]
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive <u>Developmental</u> : Negative
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name	ogenic hazard of particle clearance	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive <u>Developmental</u> : Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Negative
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name Fiodo-2-propynyl-butyl carbamate	ogenic hazard of particle clearance : Not available	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive Developmental: Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Negative Developmental: Negative
Carcinogenicity It has been observed that the carcin leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name Foido-2-propynyl-butyl carbamate Conclusion/Summary [Product]	ogenic hazard of particle clearance : Not available : Not available	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive Developmental: Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Negative Developmental: Negative
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name Joindo-2-propynyl-butyl carbamate Conclusion/Summary [Product] Specific target organ toxicity (sing	ogenic hazard of particle clearance : Not available : Not available	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive Developmental: Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Negative Developmental: Negative
Carcinogenicity It has been observed that the carcingleading to significant impairment of point available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name Joiodo-2-propynyl-butyl carbamate Conclusion/Summary [Product] Specific target organ toxicity (sing Not available.	ogenic hazard of particle clearance : Not available : Not available <u>le exposure)</u>	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive <u>Developmental</u> : Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Negative <u>Developmental</u> : Negative e.
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name S-iodo-2-propynyl-butyl carbamate Conclusion/Summary [Product] Specific target organ toxicity (sing Not available. Specific target organ toxicity (repe	ogenic hazard of particle clearance : Not available : Not available <u>le exposure)</u>	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive <u>Developmental</u> : Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Negative <u>Developmental</u> : Negative e.
Carcinogenicity It has been observed that the carcin- leading to significant impairment of p Not available. Conclusion/Summary [Product] Reproductive toxicity Product/ingredient name Fiodo-2-propynyl-butyl carbamate	ogenic hazard of particle clearance : Not available : Not available <u>le exposure)</u>	f this product arises when respirable dust is inhaled in quantities e mechanisms in the lung. e. Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Positive <u>Developmental</u> : Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] <u>Maternal toxicity</u> : Negative <u>Developmental</u> : Negative e.

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TIAN ological information

SECTION 11: Toxicol	ogical information
Not available.	
Information on likely routes	of exposure
Not available.	
Potential acute health effect	<u>s</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: 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 ph	ysical, 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 effe	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary [Pro	oduct] : 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 haz	zards

11.2.1 Endocrine disrupting properties

Conclusion/Summary [Product]

Not available.

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

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity	
Product/ingredient name	Result
titanium dioxide	Acute - LC50 - Marine water
	Fish - Mummichog - Fundulus heteroclitus
	>1000000 μg/l [96 hours]
	<u>Effect</u> : Mortality
	Acute - LC50 - Fresh water
	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate
	<u>Age</u> : <24 hours
	3 mg/l [48 hours]
	<u>Effect</u> : Mortality

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SECTION 12: Ecological information

	•
2-Butoxyethanol	Acute - LC50 - Marine water Fish - Inland silverside - <i>Menidia beryllina</i> <u>Size</u> : 40 to 100 mm 1250000 μg/l [96 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Marine water Crustaceans - Common shrimp, sand shrimp - <i>Crangon</i> <i>crangon</i> 800000 μg/l [48 hours] <u>Effect</u> : Mortality
3-iodo-2-propynyl-butyl carbamate	Acute - LC50 - Fresh water EU Fish - Trout - <i>Oncorhynchus mykiss</i> 0.067 mg/l [96 hours]
	Acute - NOEC - Fresh water EU Fish - Trout - <i>Oncorhynchus mykiss</i> 0.049 mg/l [96 hours]
	Acute - EC50 - Fresh water EU Daphnia - Daphnia - <i>Daphnia magna</i> 0.16 mg/l [48 hours]
	Chronic - NOEC - Fresh water EU Daphnia - Daphnia - <i>Daphnia Magna</i> 0.05 mg/l [21 days]
	Acute - EC50 - Fresh water EU Algae - Algae - <i>Scenedemus subspicatus</i> 0.022 mg/l [72 hours]
2,4,7,9-tetramethyl-5-decyne-4,7-diol	LC50 Fish - <i>Cyprinus carpio</i> 42 mg/l [96 hours]
	EC50 Daphnia - <i>Daphnia magna</i> 91 mg/l [48 hours]
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Acute - EC50 - Fresh water Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> 0.003 mg/l [72 hours] <u>Effect</u> : Population
	Acute - EC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> 0.001 mg/l [48 hours] <u>Effect</u> : Intoxication
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 1.2 g 2.7 ppb [96 hours] <u>Effect</u> : Mortality

Chronic - NOEC US EPA

SECTION 12: Ecological inform	ation
	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> 0.56 ppb [97 days] <u>Effect</u> : Growth
	Chronic - NOEC - Marine water OECD Algae - Diatom - <i>Nitzschia pungens</i> 19.789 μg/l [96 hours] <u>Effect</u> : Population
1,2-benzisothiazol-3(2H)-one	Acute - LC50 - Fresh water OECD [Fish, Acute Toxicity Test] Fish - Trout - <i>Onorhynchus Mykiss</i> 1.9 mg/l [96 hours]
	Acute - EC50 OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - <i>Daphnia Magna</i> 3.7 mg/l [48 hours]
	Acute - EC50 - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.36 mg/l [72 hours]
	Acute - NOEC - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.15 mg/l [72 hours]
Conclusion/Summary [Product] : Not a	available.
12.2 Persistence and degradability	
Product/ingredient name	Result

Product/ingredient name 7,2-benzisothiazol-3(2H)-one

EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
2-Butoxyethanol	1.8	67.3685
3-iodo-2-propynyl-butyl carbamate	1.1	13.4558
2,4,7,9-tetramethyl-5-decyne-4,7-diol	1.9	83.8929
4,5-dichloro-2-octyl-2H-isothiazol-3-one	3.4	2562.01
1,2-benzisothiazol-3(2H)-one	1.9	73.142

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SECTION 12: Ecological information

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	vP	٧M
tit anium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	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
Mobility	: Not av	ailable.			1		

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
2-Butoxyethanol	No	N/A	N/A	No	N/A	N/A	N/A
3-iodo-2-propynyl-butyl carbamate	N/A	N/A	N/A	Yes	N/A	N/A	N/A
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	N/A	N/A	No	N/A	N/A	N/A
4,5-dichloro-2-octyl-2H- isothiazol-3-one	N/A	N/A	N/A	Yes	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	No	N/A	No	No	No	N/A	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	N/A	N/A	No	N/A	N/A	N/A

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
2-Butoxyethanol	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	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

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

: The product does not meet the criteria to be considered as a PBT or vPvB.

SECTION 12: Ecological information

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** : The generation of waste should be avoided or minimised wherever possible. Methods of disposal

	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	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080112, 200128
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.		

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 instruments

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

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SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name		%	Designation [Usage]	
TEKNOCLAD 3371-22		≥90	3	
Labelling	:			
ther EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applicab	le.		
Ozone depleting substances	<u>s (EU 2024/590</u>	<u>))</u>		
Not listed.				
Prior Informed Consent (PIC Not listed.	<u>;) (649/2012/El</u>	<u>U)</u>		
Persistent Organic Pollutant Not listed.	<u>ts</u>			
This product is not controlled u <u>ational regulations</u> <u>Austria</u> Limitation of the use of organic solvents	: Permitted.			
Belgium				
Book VI carcinogenic agents	s annex VI.2-1	- VI.2-3		
Ingredient name				Status
Noirs de charbon				Listed
Czech Republic				
Czech Republic Storage code	: IV			
Storage code	: IV			
Storage code <u>Denmark</u> Product registration	: IV : 4495179			
Storage code <u>Denmark</u> Product registration number				
Storage code <u>Denmark</u> Product registration number Fire class	: 4495179 : ™ -1			
Storage code <u>Denmark</u> Product registration number Fire class <u>Executive Order No. 1795/20</u>	: 4495179 : ™ -1		Annex I Section A	Annex I Section B
Storage code <u>Denmark</u> Product registration number Fire class <u>Executive Order No. 1795/20</u> Ingredient name	: 4495179 : ™ -1		Annex I Section A Listed	Annex I Section B
Storage code <u>Denmark</u> Product registration number Fire class <u>Executive Order No. 1795/20</u> Ingredient name Manium dioxide	: 4495179 : ™ -1			Annex I Section B
Storage code <u>Denmark</u> Product registration number Fire class <u>Executive Order No. 1795/20</u> Ingredient name Manium dioxide	: 4495179 : I ∕⁄7-1 2 15	Date of previo	Listed	Annex I Section B - Version : 2 23/2

SECTION 15: Regulatory information

SECTION 15: Regulat	SECTION 15: Regulatory information						
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: 0-1 Application: When spraying in existing* spray booths, if the operator is outside the spray zone.						
	- Arm protectors must be worn.						
	During non-atomising spraying in existing* facilities of the combined-cabin, spray- cabin and spray-booth type where the operator is working inside the spray zone.						
	- Gas filter mask must be worn.						
	During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.						
	- Full mask with combined filter, coveralls and hood must be worn.						
	Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.						
	Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.						
	Caution The regulations contain other stipulations in addition to the above.						
	*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	Z-Butoxyethanol RG 84						
Reinforced medical surveillance	Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable						
<u>Germany</u>							
Storage class (TRGS 510)	10						
Hazardous incident ordina	<u>e</u>						
This product is not controlled	nder the Germany Hazardous Incident Ordinance.						

SECTION 15: Regulatory information

Hazard class for water	: 3
the second second second	a ta successive a successive to the table

Number [Class]	Description	%
5.2.15.2.55.2.5 [I]	Total dust Organic substances Organic substances	45.8 3.4 1.4
AOX	: The product contains organically bound halogens and can contrivalue in waste water.	bute to the AOX
<u>Italy</u>		
D.Lgs. 152/06	: Not determined.	
Netherlands		
Water Discharge Policy (ABM)	: A(2) Toxic for aquatic organisms, may have long-term hazardou environment. Decontamination effort: A	s effects in aquat
<u>Norway</u>		
<u>Sweden</u>		
Switzerland		
VOC content	: Exempt.	
nternational regulations		
Chemical Weapon Convention	on List Schedules I, II & III Chemicals	
Not listed.		
Aontreal Protocol		
Not listed.		
Stockholm Convention on R	araistant Organia Ballutanta	
Not listed.	ersistent Organic Pollutants	
	rior Informed Consent (PIC)	
Not listed.		
JNECE Aarhus Protocol on	POPs and Heavy Metals	
Not listed.		
5.2 Chemical safety sessment	: This product contains substances for which Chemical Safety Astrophysical required.	sessments are st
ECTION 16: Other in	•	
	as changed from previously issued version.	
	as changed north previously issued version.	

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

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

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

Full text of abbreviated H statements

SECTION 16: Other information		
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
H351	Suspected of causing cancer.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH071	Corrosive to the respiratory tract.	
Full text of c	classifications [CLP/GHS]	
Acute Tox 2	2 ACUTE TOXICITY - Category 2	

Acute Tox. 2	ACUTE TOXICITY - Category 2
	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
Date of issue/ Date of revision	: 10/07/2025
Date of previous issue	: 08/01/2024

Notice to reader

: 2

Version

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 TEKNOCLAD 3371-22 - TS 9010 : 10/07/2025 Date of previous issue