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

SAFETY DATA SHEET



MOTIVO KLARLACK 2080-30 - All variants

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

1.1 Product identifier

Product name : MOTIVO KLARLACK 2080-30 - All variants

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

1.3 Details of the supplier of the safety data sheet

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

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: 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

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 Hazard statements	:Warning :H317 - May cause an allergic skin reaction.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	 P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
Storage	: Not applicable.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: EO bis(benztriazolyl)phenylpropionat 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)

SECTION 2: Hazards identification

Supplemental label elements	:	
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 Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤3	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]
Ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	≤0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	STOT SE 3, H335: C ≥ 5% M [Acute] = 1	[1] [2]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	≤0.3	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[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)	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: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]
			See Section 16 for the full text of the H statements declared above.		

SECTION 3: Composition/information on ingredients

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

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

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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	n 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 bu	rst.
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the inc 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 pressumede. Clothing for fire-fighters (including helmets, protective boots and glove conforming to European standard EN 469 will provide a basic level of protection chemical incidents.	ıre es)

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).		
6.3 Methods and material for	со	ntainment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.		
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. 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.

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
Ethyldiglycol	Regulation on Limit Values - MAC (Austria, 4/2021).
	PEAK: 140 mg/m ³ , 4 times per shift, 15 minutes.
	PEAK: 24 ppm, 4 times per shift, 15 minutes.
	TWA: 35 mg/m ³ 8 hours.
	TWA: 6 ppm 8 hours.
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 98 mg/m ³ 8 hours.
	PEAK: 40 ppm, 4 times per shift, 30 minutes.
	PEAK: 200 mg/m ³ , 4 times per shift, 30 minutes.
Ammonia	Regulation on Limit Values - MAC (Austria, 4/2021). [ammonia]
	TWA: 20 ppm 8 hours.
	TWA: 14 mg/m ³ 8 hours.
	PEAK: 50 ppm, 4 times per shift, 15 minutes.
	PEAK: 36 mg/m ³ , 4 times per shift, 15 minutes.
reaction mass of: 5-chloro-2-methyl-	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-
4-isothiazolin-3-one [EC no. 247-500-7] and	2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di-
2-methyl-2H-isothiazol-3-one [EC no.	hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin
220-239-6] (3:1)	sensitiser.
	TWA: 0.05 mg/m ³ 8 hours.
ate of issue/Date of revision : 09/01/2024	Date of previous issue : 09/01/2024 Version : 1.01 5/24
OTIVO KLARLACK 2080-30 - All variants	Label No :51411

SECTION 8¹ Exposure controls/personal protection

Ammonia TWA: 20 pm 8 hours. STEL: 50 ppm 15 minutes. STEL: 50 ppm 15 minutes. STEL: 30 mg/m ² 15 minutes. TWA: 41 mg/m ² 8 hours. STEL: 30 mg/m ² 15 minutes. STEL: 30 mg/m ² 15 minutes. Limit value 8 hours: 30 ppm 15 minutes. STELV: 20 mg/m ² 15 minutes. STELV: 20 mg/m ² 15 minutes. ELV: 20 pm 15 minutes. ELV: 20 pm 15 minutes. ELV: 20 pm 15 minutes. ELV: 20 pm 15 minutes. STELV: 20 mg/m ² 15 minutes. ELV: 20 pm 15 minutes. STELV: 20 mg/m ² 15 minutes. STEL: 50 ppm 15 minutes. STEL:		2-Butoxyethanol	Limit values (Belgium, 5/2021). Absorbed through skin.
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TWA: 100 mg/m³ 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m³ 15 minutes. STEL: 40.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [ammonia] TWA: 14 mg/m³ 8 hours. STEL: 36 mg/m³ 15 minutes. TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes.			
Ammonia STEL: 200 mg/m³ 15 minutes. Ammonia STEL: 40.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [ammonia] TWA: 14 mg/m³ 8 hours. STEL: 36 mg/m³ 15 minutes. TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes.			
Ammonia Ammonia STEL: 40.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [ammonia] TWA: 14 mg/m³ 8 hours. STEL: 36 mg/m³ 15 minutes. TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes.			
AmmoniaGovernment regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [ammonia] TWA: 14 mg/m³ 8 hours. STEL: 36 mg/m³ 15 minutes. TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes.			
Republic, 10/2022). [ammonia] TWA: 14 mg/m ³ 8 hours. STEL: 36 mg/m ³ 15 minutes. TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes.		Ammonia	
STEL: 36 mg/m ³ 15 minutes. TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes.			
TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes.			
STEL: 50.832 ppm 15 minutes.			
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SECTION 8: Exposure controls/personal protection

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	2-Butoxyethanol	Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 246 mg/m ³ 15 minutes.
	Ammonia	STEL: 50 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). [ammonia] TWA: 20 ppm 8 hours. TWA: 14 mg/m ³ 8 hours. STEL: 36 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
	2-Butoxyethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
	Ammonia	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [ammonia] TWA: 14 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 36 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
	2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
	Ammonia	 EU OEL (Europe, 1/2022). [ammonia, anhydrous] Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m³ 15 minutes.
	2-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 250 mg/m ³ 15 minutes.
	Ammonia	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 20 ppm 8 hours. Form: solution TWA: 14 mg/m ³ 8 hours. Form: solution STEL: 50 ppm 15 minutes. Form: solution STEL: 36 mg/m ³ 15 minutes. Form: solution
	2-Butoxyethanol	Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 10 ppm 8 hours. TWA: 49 mg/m ³ 8 hours. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
	Ammonia	Ministry of Labor (France, 10/2022). [ammonia] Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 10 ppm 8 hours. TWA: 7 mg/m ³ 8 hours. STEL: 20 ppm 15 minutes. STEL: 14 mg/m ³ 15 minutes.
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Ethyldiglycol	DFG MAC-values list (Germany, 7/2022).	
	PEAK: 100 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable	
	fraction	
	TWA: 50 mg/m ³ 8 hours. Form: inhalable fraction	
	TRGS 900 OEL (Germany, 6/2022).	
	TWA: 35 mg/m ³ 8 hours.	
	PEAK: 70 mg/m ³ 15 minutes.	
	TWA: 6 ppm 8 hours. PEAK: 12 ppm 15 minutes.	
2-Butoxyethanol	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.	
2-Duloxyelilarioi	TWA: 49 mg/m ³ 8 hours.	
	PEAK: 98 mg/m ³ 15 minutes.	
	TWA: 10 ppm 8 hours.	
	PEAK: 20 ppm 15 minutes.	
	DFG MAC-values list (Germany, 7/2022). Absorbed through	
	skin.	
	TWA: 10 ppm 8 hours.	
	PEAK: 20 ppm, 4 times per shift, 15 minutes.	
	TWA: 49 mg/m ³ 8 hours.	
	PEAK: 98 mg/m ³ , 4 times per shift, 15 minutes.	
Ammonia	TRGS 900 OEL (Germany, 6/2022). [ammonia]	
	TWA: 14 mg/m ³ 8 hours.	
	TWA: 20 ppm 8 hours.	
	PEAK: 28 mg/m ³ 15 minutes.	
	PEAK: 40 ppm 15 minutes.	
	DFG MAC-values list (Germany, 7/2022). [Ammonia]	
	TWA: 20 ppm 8 hours.	
	PEAK: 40 ppm, 4 times per shift, 15 minutes.	
	TWA: 14 mg/m ³ 8 hours.	
	PEAK: 28 mg/m ³ , 4 times per shift, 15 minutes.	
2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit	
	values (Greece, 9/2021). Absorbed through skin.	
	TWA: 25 ppm 8 hours.	
	TWA: 120 mg/m ³ 8 hours.	
Ammonia	Presidential Decree 307/1986: Occupational exposure limit	
	values (Greece, 9/2021). [ammonia]	
	TWA: 50 ppm 8 hours.	
	TWA: 35 mg/m ³ 8 hours.	
	STEL: 50 ppm 15 minutes.	
	STEL: 35 mg/m³ 15 minutes.	
2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed	
	through skin. Skin sensitiser. Inhalation sensitiser.	
	TWA: 98 mg/m ³ 8 hours.	
	PEAK: 246 mg/m ³ 15 minutes.	
	PEAK: 50 ppm 15 minutes.	
Ammonia	TWA: 20 ppm 8 hours.	
Ammonia	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [ammonia]	
	TWA: 14 mg/m³ 8 hours. PEAK: 36 mg/m³ 15 minutes.	
	PEAK: 50 ppm 15 minutes.	
	TWA: 20 ppm 8 hours.	
2-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	Absorbed through skin.	
	STEL: 246 mg/m ³ 15 minutes.	
	STEL: 50 ppm 15 minutes.	
	TWA: 100 mg/m ³ 8 hours.	
Ammonia	TWA: 20 ppm 8 hours. Ministry of Wolfaro, List of Exposure Limits (Icoland, 5/2021)	
	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	[ammonia] Absorbed through skin. STEL: 36 mg/m ³ 5 minutes.	
	STEL: 50 ppm 5 minutes.	
	TWA: 14 mg/m ³ 8 hours.	
	TWA: 20 ppm 8 hours.	

SECTION 8: Exposure controls/personal protection

2-Butoxyethanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values
Ammonia	 OELV-8hr: 20 ppm 8 hours. OELV-8hr: 98 mg/m³ 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m³ 15 minutes. NAOSH (Ireland, 5/2021). [ammonia, anhydrous] Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 20 ppm 8 hours. OELV-8hr: 14 mg/m³ 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 36 mg/m³ 15 minutes.
2-Butoxyethanol	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m ³ 8 hours.
Ammonia	 Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m³ 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). [ammonia] 8 hours: 20 ppm 8 hours. 8 hours: 14 mg/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 36 mg/m³ 15 minutes.
2-Butoxyethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Ammonia	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [ammonia] TWA: 14 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m ³ 15 minutes. TWA: 20 ppm 8 hours.
2-Butoxyethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 50 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m ³ 15 minutes. STEL: 20 ppm 15 minutes.
Ammonia	Lithuania, 7/2022). [ammonia] TWA: 14 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 36 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
2-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Ammonia	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [ammonia] TWA: 20 ppm 8 hours. TWA: 14 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m ³ 15 minutes.
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SECTION 8: Exposure controls/personal protection EU OEL (Europe, 1/2022), Absorbed through skin. Notes: list 2-Butoxvethanol of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. Ammonia EU OEL (Europe, 1/2022). [ammonia, anhydrous] Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m³ 15 minutes. 2-Butoxyethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 100 mg/m³ 8 hours. STEL,15-min: 246 mg/m³ 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes. Ammonia Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [ammonia] OEL, 8-h TWA: 14 mg/m³ 8 hours. STEL,15-min: 36 mg/m³ 15 minutes. STEL,15-min: 50 ppm 15 minutes. OEL, 8-h TWA: 20 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through 2-Butoxyethanol skin. Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours. Ammonia FOR-2011-12-06-1358 (Norway, 12/2022). [ammonia] Notes: indicative limit value TWA: 15 ppm 8 hours. TWA: 11 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). [ammonia] STEL: 50 ppm 15 minutes. STEL: 36 mg/m³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy 2-Butoxyethanol of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 98 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. Ammonia Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [ammonia] TWA: 14 mg/m³ 8 hours. STEL: 28 mg/m³ 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). 2-Butoxyethanol TWA: 20 ppm 8 hours. Ammonia Portuguese Institute of Quality (Portugal, 11/2014). [ammonia] TWA: 25 ppm 8 hours. STEL: 35 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and 2-Butoxyethanol additions (Romania, 3/2021). Absorbed through skin. VLA: 98 mg/m³ 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m³ 15 minutes. Short term: 50 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Ammonia additions (Romania, 3/2021). [ammonia] VLA: 14 mg/m³ 8 hours.

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	VLA: 20 ppm 8 hours.
	Short term: 36 mg/m ³ 15 minutes.
	Short term: 50 ppm 15 minutes.
-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin.
	TWA: 98 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 246 mg/m ³ 15 minutes.
mmonia	STEL: 50 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020).
Innonia	[ammonia]
	TWA: 14 mg/m³, (ammonia) 8 hours.
	TWA: 20 ppm, (ammonia) 8 hours.
	STEL: 36 mg/m ³ , (ammonia) 15 minutes.
	STEL: 50 ppm, (ammonia) 15 minutes.
thyldiglycol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).
	KTV: 12 ppm, 4 times per shift, 15 minutes.
	TWA: 6 ppm 8 hours.
	KTV: 70 mg/m ³ , 4 times per shift, 15 minutes.
Dute weth an al	TWA: 35 mg/m ³ 8 hours.
-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).
	Absorbed through skin.
	TWA: 98 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	KTV: 246 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 50 ppm, 4 times per shift, 15 minutes.
mmonia	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	[ammonia] TWA: 14 mg/m³ 8 hours.
	TWA: 20 ppm 8 hours.
	KTV: 36 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 50 ppm, 4 times per shift, 15 minutes.
-Butoxyethanol	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours.
	STEL: 245 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
mmonia	National institute of occupational safety and health (Spain,
	4/2022). [ammonia]
	TWA: 20 ppm 8 hours.
	TWA: 14 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes. STEL: 36 mg/m ³ 15 minutes.
thyldiglycol	Work environment authority Regulation 2018:1 (Sweden,
arylaigiyeer	9/2021). Absorbed through skin.
	TWA: 15 ppm 8 hours.
	TWA: 80 mg/m ³ 8 hours.
	STEL: 30 ppm 15 minutes.
-Butoxyethanol	STEL: 170 mg/m ³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden,
Batoxyothanoi	9/2021). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 50 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
mmonio	STEL: 246 mg/m ³ 15 minutes.
mmonia	Work environment authority Regulation 2018:1 (Sweden, 9/2021). [ammonia]
	TWA: 20 ppm 8 hours.
	TWA: 14 mg/m ³ 8 hours.

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	STEL: 50 ppm 5 minutes.
	STEL: 36 mg/m ³ 5 minutes.
Ethyldiglycol	SUVA (Switzerland, 1/2023).
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STEL: 100 mg/m ³ 15 minutes. Form: Inhalable fraction of Vapor
	and aerosols
	TWA: 50 mg/m ³ 8 hours. Form: Inhalable fraction of Vapor and
	aerosols
2-Butoxyethanol	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 49 mg/m ³ 8 hours.
	STEL: 20 ppm 15 minutes.
	STEL: 98 mg/m ³ 15 minutes.
Ammonia	SUVA (Switzerland, 1/2023). [ammonia]
	TWA: 20 ppm 8 hours.
	TWA: 14 mg/m ³ 8 hours.
	STEL: 40 ppm 15 minutes.
	STEL: 28 mg/m ³ 15 minutes.
reaction mass of: 5-chloro-2-methyl-	SUVA (Switzerland, 1/2023). Skin sensitiser.
4-isothiazolin-3-one [EC no. 247-500-7] and	
2-methyl-2H-isothiazol-3-one [EC no.	
220-239-6] (3:1)	OTEL: 0.4 may/m34E minutes. Estimates labeled for stice
	STEL: 0.4 mg/m ³ 15 minutes. Form: Inhalable fraction
	TWA: 0.2 mg/m ³ 8 hours. Form: Inhalable fraction
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 50 ppm 15 minutes.
	TWA: 25 ppm 8 hours.
	STEL: 246 mg/m ³ 15 minutes.
	TWA: 123 mg/m ³ 8 hours.
Dipropyleneglycolmethylether	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 308 mg/m ³ 8 hours.
Ammonia	TWA: 50 ppm 8 hours.
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia
	anhydrous]
	STEL: 25 mg/m ³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous
	TWA: 25 ppm 8 hours. Form: anhydrous
	TWA: 18 mg/m ³ 8 hours. Form: anhydrous
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
· · · · · · · · · · · · · · · · · · ·	TWA: 10 ppm 8 hours.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m ³ 8 hours.
	STEL: 101.2 mg/m ³ 15 minutes.
2-Ethoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
,	through skin.
	TWA: 2 ppm 8 hours.

Biological exposure indices

Product/ingredient name	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 shif 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	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of the shift after several shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	NAOSH (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end shift - As soon as possible after exposure ceases.
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.	

SECTION 8: Exposure controls/personal protection 2-Butoxvethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) 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. National institute of occupational safety and health (Spain, 2-Butoxyethanol 4/2022) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift. No exposure indices known. SUVA (Switzerland, 1/2023) 2-Butoxyethanol 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. EH40/2005 BMGVs (United Kingdom (UK), 8/2018) 2-Butoxyethanol 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	Туре	Exposure	Value	Population	Effects
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	59 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m³	General population	Local
	DNEL	Short term	246 mg/m ³	Workers	Local
	DIVLL	Inhalation	240 mg/m	V OINCIO	Loodi
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation	<u>-</u>	population	- ,
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		-
reaction mass of: 5-chloro-2-methyl-	DNEL	Long term	0.02 mg/m ³	General	Local
4-isothiazolin-3-one [EC no.		Inhalation		population	
247-500-7] and 2-methyl-2H-					
isothiazol-3-one [EC no. 220-239-6]					
(3:1)	DNEL	Long term	0.02 mg/m ³	Workers	Local
	DIVLL	Inhalation	0.02 mg/m	VV OINCI O	Loodi
	DNEL	Short term	0.04 mg/m ³	General	Local
		Inhalation	j,	population	
	DNEL	Short term	0.04 mg/m ³		Local
		Inhalation	<u> </u>		
	DNEL	Long term Oral	0.09 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Oral	0.11 mg/	General	Systemic
			kg bw/day	population	

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PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airc contaminants.	orne
Individual protection meas	<u>ires</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contaminated clo Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safet showers are close to the workstation location.	othing. h
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a assessment indicates this is necessary to avoid exposure to liquid splashes, m gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses side-shields.	nists,
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard sl be worn at all times when handling chemical products if a risk assessment indi this is necessary. Considering the parameters specified by the glove manufac check during use that the gloves are still retaining their protective properties. I 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 several substances, the protection time of the gloves cannot be accurately estimated.	icates turer, t
	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 tabeing performed and the risks involved and should be approved by a specialist before handling this product.	
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should approved by a specialist before handling this product.	be
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other 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 proce 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	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.

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SECTION 9: Physical and chemical properties

1

Initial boiling point and

boiling range

Ingredient name		°C	°F	Ma	ethod	
water		100	212		stilou	
		171 to 171.5	339.8 to 340.7		123-93	
2-Butoxyethanol			339.8 to 340.7	IP	123-93	
Flammability		available.				
Lower and upper explosion imit		er: 1.2% er: 23.5%				
Flash point	: Clos	ed cup: >100°C	(>212°F)			
Auto-ignition temperature	:					
Ingredient name		°C	°F	Me	ethod	
Ethyldiglycol		204	399.2			
2-Butoxyethanol		230	446	DIN	N 51794	
Decomposition temperature	e : Not	available.				
ЭΗ	: 7.5 t	o 8 [Conc. (% w/	w): 100%]			
/iscosity	: Not	available.				
Solubility(ies)	:					
Not available.						
Solubility in water	: Not	available.				
Partition coefficient: n-octa vater	nol/ : Not	applicable.				
/apour pressure	:					
	Va	pour Pressure a	at 20°C	Va	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa M	ethod n	ım Hg	kPa	Method
water	17.5	2.3				
2-Butoxyethanol	0.75006	0.1				

Relative density	: Not available.
Density	: 1 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stabilit	y 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.
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SECTION 10: Stability and reactivity

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ammonia 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)	LD50 Oral LD50 Oral	Rat Rat	350 mg/kg 53 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
Oral	60000 mg/kg
Inhalation (vapours)	150 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ammonia	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
				1 mg	
	Eyes - Severe irritant	Rabbit	-	250 ug	-
reaction mass of: 5-chloro-	Skin - Severe irritant	Human	-	0.01 %	-
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	: Based on available data, t	the classification o	riteria are	e not met.	
<u>Sensitisation</u>					

Conclusion/Summary : May cause an allergic skin reaction.

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

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

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

Teratogenicity

Mutagenicity

Carcinogenicity

Reproductive toxicity

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

<u>Specific target organ toxicity (single exposure)</u>

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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes : Not available. of exposure

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SECTION 11. Toxicological information

SECTION 11: TOXICO	logical information
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 phy	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 effect Short term exposure	cts as well as chronic effects from short and long-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 eff	<u>iects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently ex

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. **11.2.2 Other information**

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
P-Butoxyethanol	Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours	
Ammonia	Acute LC50 37 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours	
Conclusion/Summary	on/Summary : Based on available data, the classification criteria are not met.			

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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SECTION 12: Ecological information			
Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 08.01.19
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
Not regulated.	Not regulated.	Not regulated.	Not regulated.
-	-	-	-
-	-	-	-
-	-	-	-
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	Not regulated. - - - ision : 09/01/202	Not regulated. Not regulated. - - - - - - - - ision :09/01/2024	Not regulated. Not regulated. Not regulated. - - - - - - - - - - - - - - - ision : 09/01/2024 Date of previous issue : 09/01/2024

14.5	No.	No.	No.	No.
Environmental hazards				
14.6 Special preca user	utions for	-	sure that persons transpor	sport in closed containers that are ting the product know what to do in
14.7 Maritime tran	sport in	: Not relevant/applicable	e due to nature of the produ	uct.

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

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Annex XIV

bulk according to IMO

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]
MOTIVO KLARLACK 2080-30	≥90	3

Labelling

Laboling	•
Other EU regulations	
Industrial emissions (integrated pollution	: Not listed
prevention and control) - Air	
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Explosive precursors	: Not applicable.
Ozone depleting substance	<u>es (1005/2009/EU)</u>
Not listed.	
Prior Informed Consent (P	IC) (649/2012/EU)
Not listed.	
Persistent Organic Polluta Not listed.	<u>nts</u>
Seveso Directive	
This product is not controlled	under the Seveso Directive.
National regulations	
<u>Austria</u>	
VbF class	: Not regulated.
Limitation of the use of organic solvents	: Permitted.
Czech Republic	
Storage code	: IV
<u>Denmark</u>	

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SECTION 15: Regulatory information		
Danish fire class	:	IV-1
MAL-code	:	0-1
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
<u>Finland</u> France		
Social Security Code, Articles L 461-1 to L 461-7	:	2-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> Storegy close (TBCS 540)		10
Storage class (TRGS 510)		
Hazardous incident ordina		-
This product is not controlled	d ui	nder the Germany Hazardous Incident Ordinance.

SECTION 15: Regulatory information

SECTION 15. Regula	110	ry mornation
Hazard class for water	:	1
Technical instruction on air quality control	:	TA-Luft Number 5.2.5: 28.3%
ΑΟΧ	:	The product contains organically bound halogens and can contribute to the AOX value in waste water.
<u>Italy</u>		
D.Lgs. 152/06	1	Not determined.
Netherlands		
Water Discharge Policy (ABM)	:	A(4) Low hazard for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A
<u>Norway</u>		
<u>Sweden</u>		
Switzerland		
VOC content	1	Exempt.
International regulations		
Chemical Weapon Convent	tion	List Schedules I, II & III Chemicals
Not listed.		
Montreal Protocol		
Not listed.		
Steelyholm Convention on	Dor	aiatant Organia Pollutanta
Stockholm Convention on Not listed.	Pers	sistent Organic Politiants
NOT IISTED.		
Rotterdam Convention on	<u>Prio</u>	<u>r Informed Consent (PIC)</u>
Not listed.		
UNECE Aarhus Protocol or	<u>1 PC</u>	<u>)Ps and Heavy Metals</u>
Not listed.		

15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments are still
assessment	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
	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

Full text of abbreviated H statements

SECTION 16: Other information		
Н301 Т	oxic if swallowed.	
H302 H	Harmful if swallowed.	
H310 F	Fatal in contact with skin.	
	Causes severe skin burns and eye damage.	
	Causes skin irritation.	
	May cause an allergic skin reaction.	
	Causes serious eye damage.	
	Causes serious eye irritation.	
	atal if inhaled.	
	oxic if inhaled.	
	Aay cause respiratory irritation.	
	/ery toxic to aquatic life.	
	/ery toxic to aquatic life with long lasting effects.	
	oxic to aquatic life with long lasting effects.	
EUH071 C	Corrosive to the respiratory tract.	
Full text of classif	ications [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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1A	SKIN SENSITISATION - Category 1A	
STOT 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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