# SAFETY DATA SHEET



TEKNOLUX AQUA 1728-53 - NCS S 0500-N

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

1.1 Product identifier

: TEKNOLUX AQUA 1728-53 - NCS S 0500-N **Product name** 

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

**Product use** : Paint.

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person responsible for this SDS

: Prod-safe@teknos.com

**National contact** 

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

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

: In an emergency, call 112 Telephone number

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Skin Sens. 1, H317

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** 



: Warning Signal word

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

**Precautionary statements** 

**Prevention** : P280 - Wear protective gloves.

P261 - Avoid breathing vapour.

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.

: Not applicable. **Storage** 

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

national and international regulations.

**Hazardous ingredients** Contains: ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 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)

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### **SECTION 2: Hazards identification**

Supplemental label elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

#### 2.3 Other hazards

**Product meets the criteria** for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do not result in classification : None known.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers %		Classification	Specific Conc. Limits, M-factors and ATEs	Туре	
Manium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]	
ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate	REACH #: 01-2119987994-10 EC: 282-810-6 CAS: 84434-11-7	≤2.1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]	
2-hydroxy- 2-methylpropiophenone	REACH #: 01-2119472306-39 EC: 231-272-0 CAS: 7473-98-5	≤1.6	Acute Tox. 4, H302 Aquatic Chronic 3, H412	ATE [Oral] = 1694 mg/kg	[1]	
4-methylbenzophenone	EC: 205-159-1 CAS: 134-84-9	≤1.6	STOT RE 2, H373 (oral) Aquatic Chronic 3, H412	-	[1]	
Triethylamine	REACH #: 01-2119475467-26 EC: 204-469-4 CAS: 121-44-8 Index: 612-004-00-5	<1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 7.2 mg/l STOT SE 3, H335: C ≥ 1%	[1] [2]	
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]	
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-	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	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg	[1]	

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#### SECTION 3: Composition/information on ingredients 3-one [EC no. 220-239-6] Eye Dam. 1, H318 ATE [Inhalation] (3:1)Skin Sens. 1A, H317 (vapours)] = 0.5 Aguatic Acute 1, H400 mq/l Aquatic Chronic 1, Skin Corr. 1C. H410 H314: C ≥ 0.6% **EUH071** Eye Dam. 1, H318: C ≥ 0.6% Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100 See Section 16 for the full text of the H statements declared above.

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

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

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

#### 4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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.

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

Inhalation

: No specific data.

Skin contact

: Adverse symptoms may include the following:

irritation redness

Ingestion

: No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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### **SECTION 6: Accidental release measures**

#### 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : 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				
<b>T</b> riethylamine	Regulation on Limit Values - MAC (Austria, 4/2021)				
•	TWA 8 hours: 2 ppm.				
	TWA 8 hours: 8.4 mg/m³.				
	PEAK 15 minutes: 3 ppm 4 times per shift.				
	PEAK 15 minutes: 12.6 mg/m³ 4 times per shift.				
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed				
•	through skin.				
	TWĂ 8 hours: 20 ppm.				
	TWA 8 hours: 98 mg/m³.				
	PEAK 30 minutes: 40 ppm 4 times per shift.				

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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)

. . . . ] ( . . )

**T**riethylamine

2-Butoxyethanol

**T**riethylamine

2-Butoxyethanol

riethylamine

2-Butoxyethanol

riethylamine

2-Butoxyethanol

PEAK 30 minutes: 200 mg/m<sup>3</sup> 4 times per shift.

Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin

sensitiser.

TWA 8 hours: 0.05 mg/m<sup>3</sup>.

Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 0.5 ppm. TWA 8 hours: 2.07 mg/m³. STEL 15 minutes: 1 ppm. STEL 15 minutes: 4.14 mg/m³.

Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 15 minutes: 12.6 mg/m³. Limit value 8 hours: 8.4 mg/m³. Limit value 15 minutes: 3 ppm. Limit value 8 hours: 2 ppm.

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/m³. Limit value 15 minutes: 246 mg/m³. Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.

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: 12.6 mg/m³. STELV 15 minutes: 3 ppm. ELV 8 hours: 8.4 mg/m³. ELV 8 hours: 2 ppm.

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/m³. STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m³. ELV 8 hours: 20 ppm.

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

through skin.

STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m³. TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m³.

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

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through skin.

STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³.

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riethylamine Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin.

> TWA 8 hours: 8 mg/m<sup>3</sup>. TWA 8 hours: 1.9 ppm. STEL 15 minutes: 12 mg/m<sup>3</sup>. STEL 15 minutes: 2.85 ppm.

2-Butoxyethanol

Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m<sup>3</sup>. STEL 15 minutes: 40.7 ppm.

riethylamine

Working Environment Authority (Denmark, 3/2024) Absorbed

through skin.

TWA 8 hours: 1 ppm. TWA 8 hours: 4.1 mg/m<sup>3</sup>. STEL 15 minutes: 12.6 mg/m<sup>3</sup>. STEL 15 minutes: 3 ppm.

2-Butoxyethanol

Working Environment Authority (Denmark, 3/2024) Absorbed

through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

riethylamine

Occupational exposure limits, Regulation No. 293 (Estonia,

4/2024) Absorbed through skin, Sensitiser.

TWA 8 hours: 8.4 mg/m<sup>3</sup>. TWA 8 hours: 2 ppm.

STEL 15 minutes: 12.6 mg/m<sup>3</sup>. STEL 15 minutes: 3 ppm.

2-Butoxyethanol

Occupational exposure limits, Regulation No. 293 (Estonia,

4/2024) Absorbed through skin, Sensitiser.

TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

riethylamine

EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 ma/m<sup>3</sup>. STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m<sup>3</sup>.

2-Butoxyethanol

EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>.

riethylamine

Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin.

STEL 15 minutes: 1 ppm. STEL 15 minutes: 4.2 mg/m<sup>3</sup>.

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<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m<sup>3</sup>.

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riethylamine Ministry of Labor (France, 6/2024) Absorbed through skin. STEL 15 minutes: 3 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 12.6 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 4.2 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 1 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) 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<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m<sup>3</sup>. 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) riethylamine TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 4.2 mg/m<sup>3</sup>. PEAK 15 minutes: 8.4 mg/m<sup>3</sup>. TWA 8 hours: 1 ppm. PEAK 15 minutes: 2 ppm. DFG MAC-values list (Germany, 7/2023) Develop D. TWA 8 hours: 1 ml/m3. PEAK 15 minutes: 2 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 4.2 mg/m<sup>3</sup>. PEAK 15 minutes: 8.4 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 2 ml/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. 2-Butoxyethanol TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 ma/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) 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/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. **T**riethylamine Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 40 mg/m<sup>3</sup>. STEL 15 minutes: 15 ppm. STEL 15 minutes: 60 mg/m<sup>3</sup>. 2-Butoxyethanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through riethylamine skin. TWA 8 hours: 8.4 mg/m<sup>3</sup>. PEAK 15 minutes: 12.6 mg/m<sup>3</sup>. PEAK 15 minutes: 3 ppm. TWA 8 hours: 2 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through 2-Butoxyethanol TWA 8 hours: 98 ma/m<sup>3</sup>. PEAK 15 minutes: 246 mg/m<sup>3</sup>. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.

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Friethylamine Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023)

STEL 15 minutes: 12.6 mg/m³. STEL 15 minutes: 3 ppm. TWA 8 hours: 8.4 mg/m³. TWA 8 hours: 2 ppm.

2-Butoxyethanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023)

Absorbed through skin.

Absorbed through skin.

STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m³. TWA 8 hours: 20 ppm.

Friethylamine NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV 8 hours: 2 ppm.
OELV 8 hours: 8.4 mg/m³.
OELV 15 minutes: 3 ppm.
OELV 15 minutes: 12.6 mg/m³.

2-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.

Friethylamine Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.
Limit value 8 hours: 2 ppm.
Limit value 8 hours: 8.4 mg/m³.
Short Term 15 minutes: 3 ppm.
Short Term 15 minutes: 12.6 mg/m³.

2-Butoxyethanol Legislative Decree No. 81/2008. Title IX. Protection from

chemical agents, carcinogens and mutagens (Italy, 6/2020)

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Absorbed through skin.
Limit value 8 hours: 20 ppm.
Limit value 8 hours: 98 mg/m³.
Short Term 15 minutes: 50 ppm.
Short Term 15 minutes: 246 mg/m³.

riethylamine Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

STEL 15 minutes: 3 ppm. TWA 8 hours: 8.4 mg/m³. STEL 15 minutes: 12.6 mg/m³. TWA 8 hours: 2 ppm.

2-Butoxyethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 98 mg/m³.
TWA 8 hours: 20 ppm.
STEL 15 minutes: 50 ppm.
STEL 15 minutes: 246 mg/m³.

Friethylamine Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 8.4 mg/m³.
TWA 8 hours: 2 ppm.
STEL 15 minutes: 12.6 mg/

STEL 15 minutes: 12.6 mg/m<sup>3</sup>. STEL 15 minutes: 3 ppm.

2-Butoxyethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 50 mg/m³.
TWA 8 hours: 10 ppm.
STEL 15 minutes: 100 mg/m³.
STEL 15 minutes: 20 ppm.

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Friethylamine | Grand-Duchy Regulation 2016. Chemical agents. Annex I

TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m³. STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m³.

2-Butoxyethanol

Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

(Luxembourg, 3/2021) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

riethylamine

EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 2 ppm.
TWA 8 hours: 8.4 mg/m³.
STEL 15 minutes: 3 ppm.
STEL 15 minutes: 12.6 mg/m³.

2-Butoxyethanol

EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

**T**riethylamine

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 4.2 mg/m³. STEL 15 minutes: 12.6 mg/m³.

STEL 15 minutes: 3 ppm. TWA 8 hours: 1 ppm.

2-Butoxyethanol

Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 100 mg/m³. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.

riethylamine

FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.

TWA 8 hours: 2 ppm. TWA 8 hours: 8 mg/m³.

2-Butoxyethanol

FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m<sup>3</sup>.

**T**riethylamine

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

**8/2023)** Absorbed through skin. TWA 8 hours: 3 mg/m³. STEL 15 minutes: 9 mg/m³.

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,

**8/2023)** Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 200 mg/m<sup>3</sup>.

riethylamine

Portuguese Institute of Quality (Portugal, 11/2014) A4.

Absorbed through skin.
TWA 8 hours: 1 ppm.
STEL 15 minutes: 3 ppm.

2-Butoxyethanol

Portuguese Institute of Quality (Portugal, 11/2014) A3.

TWA 8 hours: 20 ppm.

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riethylamine HG 1218/200

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

VLA 8 hours: 8.4 mg/m³. VLA 8 hours: 2 ppm.

Short term 15 minutes: 12.6 mg/m³. Short term 15 minutes: 3 ppm.

2-Butoxyethanol

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

VLA 8 hours: 98 mg/m<sup>3</sup>. VLA 8 hours: 20 ppm.

Short term 15 minutes: 246 mg/m³. Short term 15 minutes: 50 ppm.

riethylamine

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 8.4 mg/m³. TWA 8 hours: 2 ppm.

STEL 15 minutes: 12.6 mg/m<sup>3</sup>. STEL 15 minutes: 3 ppm.

2-Butoxyethanol

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm.

riethylamine

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: 8.4 mg/m³. TWA 8 hours: 2 ppm.

KTV 15 minutes: 12.6 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 3 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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].

riethylamine

National institute of occupational safety and health (Spain,

1/2024) Absorbed through skin.

TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m³. STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m³.

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/m³.

STEL 15 minutes: 245 mg/m³. STEL 15 minutes: 50 ppm.

riethylamine

Work environment authority Regulation 2018:1 (Sweden,

11/2022) Absorbed through skin.

TWA 8 hours: 1 ppm. TWA 8 hours: 4.2 mg/m³. STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m³.

2-Butoxyethanol

Work environment authority Regulation 2018:1 (Sweden,

11/2022) Absorbed through skin.

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TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. riethylamine SUVA (Switzerland, 1/2024) TWA 8 hours: 1 ppm. TWA 8 hours: 4.2 mg/m<sup>3</sup>. STEL 15 minutes: 2 ppm. STEL 15 minutes: 8.4 mg/m<sup>3</sup>. 2-Butoxyethanol SUVA (Switzerland, 1/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m<sup>3</sup>. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m<sup>3</sup>. reaction mass of: 5-chloro-2-methyl-SUVA (Switzerland, 1/2024) Sensitiser. 4-isothiazolin-3-one [EC no. 247-500-7] and STEL 15 minutes: 0.4 mg/m<sup>3</sup>. Form: Inhalable fraction. 2-methyl-2H-isothiazol-3-one [EC no. TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Inhalable fraction. 220-239-6] (3:1) riethylamine EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 17 mg/m<sup>3</sup>. TWA 8 hours: 2 ppm. TWA 8 hours: 8 mg/m<sup>3</sup>. STEL 15 minutes: 4 ppm. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed 2-Butoxyethanol through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm.

> STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 123 mg/m<sup>3</sup>.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
<b>2</b> -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.	
<b>2</b> -Butoxyethanol	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2-butoxyethanol and its acetate]  BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).

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2-Butoxyethanol

DFG BEI-values list (Germany, 7/2023) 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 longterm exposures: at the end of the shift after several shifts.

TRGS 903 - BEI Values (Germany, 2/2024)

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 shift after several shifts.

No exposure indices known.

No exposure indices known.

No exposure indices known.

2-Butoxyethanol

No exposure indices known.

2-Butoxyethanol

No exposure indices known.

No exposure indices known.

2-Butoxyethanol

2-Butoxyethanol

No exposure indices known.

2-Butoxyethanol

2-Butoxyethanol

NAOSH (Ireland, 1/2011)

BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.

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.

National institute of occupational safety and health (Spain,

VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.

SUVA (Switzerland, 1/2024)

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), 1/2020)

BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

procedures

**Recommended monitoring**: 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

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required.

**DNELs/DMELs** 

Product/ingredient name

titanium dioxide

ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate

2-hydroxy-2-methylpropiophenone

4-methylbenzophenone

Result

DNEL - General population - Long term - Inhalation

28 μg/m³ Effects: Local

**DNEL - Workers - Long term - Inhalation** 

170 μg/m³ <u>Effects</u>: Local

DNEL - General population - Long term - Oral

0.5 mg/kg bw/day Effects: Systemic

**DNEL - General population - Long term - Dermal** 

0.5 mg/kg bw/day Effects: Systemic

**DNEL - General population - Long term - Inhalation** 

0.87 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

1.4 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

4.93 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

0.4 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

0.5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

0.9 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

1 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

3.5 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

0.05 mg/kg bw/day Effects: Systemic

**DNEL - General population - Long term - Dermal** 

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

**DNEL - Workers - Long term - Dermal** 

0.1 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

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0.17 mg/m<sup>3</sup>

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Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

0.7 mg/m³
<u>Effects</u>: Systemic

Triethylamine

**DNEL - Workers - Long term - Inhalation** 

8.4 mg/m³ <u>Effects</u>: Local

**DNEL - Workers - Long term - Inhalation** 

8.4 mg/m³ Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

12.6 mg/m³ Effects: Local

**DNEL - Workers - Short term - Inhalation** 

12.6 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

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

2-Butoxyethanol DNEL - General population - Long term - Oral

6.3 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

26.7 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

59 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

98 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Short term - Inhalation

147 mg/m³ Effects: Local

**DNEL - Workers - Short term - Inhalation** 

246 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

426 mg/m³ Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

1091 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

4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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

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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 <u>Effects</u>: Systemic

#### **PNECs**

Not available.

#### 8.2 Exposure controls

Appropriate engineering controls

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

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### **Skin protection**

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated

 $Recommendations \ : \ We ar suitable \ gloves \ tested \ to \ EN374.$ 

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

> 8 hours (breakthrough time): 4H / Silver Shield® gloves.

Wash hands before breaks and immediately after handling the product.

**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

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**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colour White. **Odour** Slight

: Not available. **Odour threshold** : Not available. Melting point/freezing point

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
water value of the state of the	100	212	
2-hydroxy-2-methylpropiophenone	252.1	485.8	OECD 104

**Flammability** : Not available.

Lower and upper explosion

limit

: Lower: Not applicable. Upper: Not applicable.

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

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	423	793.4	DIN EN 14522

**Decomposition temperature** : Not available.

7.6 to 8.6 [Conc. (% w/w): 100%] pН

Not available. **Viscosity** 

Solubility(ies)

Not available.

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

water

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					
2-hydroxy-2-methylpropiophenone	0.00428	0.00057	OECD 104	0.09751	0.013	OECD 104	

**Relative density** : Not available. : 1.2 g/cm<sup>3</sup> **Density** 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.

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# **SECTION 9: Physical and chemical properties**

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

### **SECTION 10: Stability and reactivity**

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

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

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

### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** 

Product/ingredient name Result

1694 mg/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed

activity) Behavioral - Tremor Liver - Other changes

Rat - Dermal - LD50

6929 mg/kg

Triethylamine Rat - Oral - LD50

460 mg/kg

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)

Rat - Oral - LD50 53 mg/kg

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

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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)
FEKNOLUX AQUA 1728-53	10290.8	33598.0	N/A	237.7	N/A
2-hydroxy-2-methylpropiophenone	1694	6929	N/A	N/A	N/A
Triethylamine	100	300	N/A	7.2	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-	53	50	N/A	0.5	N/A
3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)					

#### Skin corrosion/irritation

Product/ingredient name Result

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# **SECTION 11: Toxicological information**

Manium dioxide Human - Skin - Mild irritant

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

Triethylamine Rabbit - Skin - Mild irritant

Amount/concentration applied: 365 mg

2-Butoxyethanol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

**2**-Butoxyethanol 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

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

Respiratory corrosion/irritation

Not available.

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

Respiratory or skin sensitization

Not available.

Skin

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

Respiratory

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

Germ cell mutagenicity

Not available.

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

**Carcinogenicity** 

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Not available.

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

Reproductive toxicity

Not available.

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### **SECTION 11: Toxicological information**

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

Specific target organ toxicity (single exposure)

Product/ingredient name Result

₹riethylamine STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

**Aspiration hazard** 

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

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

**Skin contact**: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

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

to very low levels.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]**: The product does not meet the criteria to be considered as having endocrine

disrupting properties according to the criteria set out in either Regulation (EC)

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No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name

tifanium dioxide

Result

Acute - LC50 - Marine water

Fish - Mummichog - Fundulus heteroclitus

>1000000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate

Age: <24 hours 3 mg/l [48 hours] Effect: Mortality

2-Butoxyethanol Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

Size: 40 to 100 mm 1250000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

800000 µg/l [48 hours]

Effect: Mortality

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

### 12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-hydroxy- 2-methylpropiophenone	1.62	-	Low
Triethylamine	** **	<0.5	Low
2-Butoxyethanol	0.81	-	Low

#### 12.4 Mobility in soil

### Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
<b>2</b> -hydroxy-2-methylpropiophenone	1.91	80.7076
4-methylbenzophenone	2.81	649.71
Triethylamine	1.88	76.4134
2-Butoxyethanol	1.83	67.3685

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	Т	vPvM	νP	vM
titanium dioxide	No	No	No	No	No	No	No
ethyl phenyl	No	No	No	No	No	No	No
(2,4,6-trimethylbenzoyl)							
phosphinate							
2-hydroxy-	No	No	No	No	No	No	No
2-methylpropiophenone							
4-methylbenzophenone	No	No	No	No	No	No	No
Triethylamine	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	No	No	No	No	No	No	No

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# **SECTION 12: Ecological information**

3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:

**Mobility** 

: Not available.

**Conclusion/Summary** 

: The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	В	T	vPvB	νP	vB	
iitanium dioxide	No	No	No	No	No	No	No	
ethyl phenyl	No	No	No	No	No	No	No	
(2,4,6-trimethylbenzoyl)								
phosphinate								
2-hydroxy-	No	No	No	No	No	No	No	
2-methylpropiophenone								
4-methylbenzophenone	No	No	No	No	No	No	No	
Triethylamine	No	No	No	No	No	No	No	
2-Butoxyethanol	No	No	No	No	No	No	No	
reaction mass of: 5-chloro-	No	No	No	No	No	No	No	
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 (EC) No. 1272/2008 [CLP]**

Product/ingredient name	PBT	P	В	T	vPvB	vP	vB	
titanium dioxide	No	No	No	No	No	No	No	
ethyl phenyl	No	No	No	No	No	No	No	
(2,4,6-trimethylbenzoyl)								
phosphinate	1							
2-hydroxy-	No	No	No	No	No	No	No	
2-methylpropiophenone								
4-methylbenzophenone	No	No	No	No	No	No	No	
Triethylamine	No	No	No	No	No	No	No	
2-Butoxyethanol	No	No	No	No	No	No	No	
reaction mass of: 5-chloro-	No	No	No	No	No	No	No	
2-methyl-4-isothiazolin-								
3-one [ÉC no. 247-500-7]								
and 2-methyl-2H-isothiazol-								
3-one [EC no. 220-239-6] (3:								
1)								
,								

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

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

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** 

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

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**European waste** catalogue (EWC) : 080111\*

**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.	₩o.	No.	No.

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.

# SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

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

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# **SECTION 15: Regulatory information**

Product/ingredient name	%	Designation [Usage]
TEKNOLUX AQUA 1728-53	≥90	3

Labelling

**Other EU regulations** 

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. Ozone depleting substances (EU 2024/590)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**National regulations** 

**Austria** 

Limitation of the use of

: Permitted.

organic solvents

**Belgium** 

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

Ingredient name	Status
<b>M</b> oirs de charbon	Listed

**Czech Republic** 

Storage code : IV

**Denmark** 

Fire class : **W**-1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
tranium dioxide	Listed	-

**MAL-code** : 1-3

**Protection based on MAL** 

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

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

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

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# **SECTION 15: Regulatory information**

MAL-code: 1-3

**Application:** When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone.

- Coveralls must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Gas filter mask and coveralls must be worn.

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

- Full mask with combined filter, arm protectors and apron must be worn.

During non-atomising spraying in existing\* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied half mask and eye protection must be worn.

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

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

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

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

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

\*See Regulations.

**Restrictions on use** 

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

List of undesirable substances

: Not listed

Carcinogenic waste

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

RG 49. RG 49bis

Label No : 92692

**RG 84** 

Finland

**France** 

Social Security Code, Articles L 461-1 to L 461-7 : Triethylamine 2-Butoxyethanol

Reinforced medical : Act o surveillance medi

: Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

**Germany** 

Storage class (TRGS 510) : 10 Hazardous incident ordinance

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

Hazard class for water : 1

Technical instruction on air quality control (TA Luft)

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# **SECTION 15: Regulatory information**

Number [Class]	Description	%
<b>5</b> .2.1	Total dust	24.1
5.2.5	Organic substances	23.5
5.2.5 [I]	Organic substances	1.9

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

value in waste water.

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

**Water Discharge Policy** 

(ABM)

: A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in

aquatic environment. Decontamination effort: A

**Norway Sweden Switzerland** 

**VOC** content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

15.2 Chemical safety

assessment

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

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and** acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

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

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# **SECTION 16: Other information**

<b>—</b>	
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

### Full text of classifications [CLP/GHS]

Tall toxt of oldoonion	
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
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
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
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 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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### **Notice to reader**

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

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