# SAFETY DATA SHEET



AQUATOP 2920-04 - BASE T - All variants

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

#### 1.1 Product identifier

**Product name** : AQUATOP 2920-04 - BASE T - All variants

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

**Product use** : Paint.

#### 1.3 Details of the supplier of the safety data sheet

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

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

responsible for this SDS

#### **National contact**

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

#### 1.4 Emergency telephone number

#### **National advisory body/Poison Centre**

: In an emergency, call 112 Telephone number

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

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Skin Sens. 1, H317

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** 



Signal word : Warning

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

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

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

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

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

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

**Storage** : Not applicable.

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

national and international regulations.

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### SECTION 2: Hazards identification

### **Hazardous ingredients**

: Contains: EO bis(benztriazolyl)phenylpropionat; Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; 3-iodo-2-propynyl-butyl carbamate and 1,2-benzisothiazol-3 (2H)-one

#### **Supplemental label** elements

: Contains biocidal products for dry film and in-can preservation: IPBC and BIT and DCOIT and C(M)IT/MIT (3:1) and DTBMA and OIT and MBIT. Risk of skin sensitisation. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Safety data sheet available on request.

**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
<b>2</b> -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]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
ammonia, anhydrous	EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5	<1	Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400	ATE [Inhalation (gases)] = 2000 ppm M [Acute] = 1	[1] [2]
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.38	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.2	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]

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#### **SECTION 3: Composition/information on ingredients** Aguatic Chronic 1, H410 1,2-benzisothiazol-3(2H)-EC: 220-120-9 < 0.036 Acute Tox. 4, H302 ATE [Oral] = 450 [1] CAS: 2634-33-5 Acute Tox. 2, H330 mg/kg one Skin Irrit. 2, H315 ATE [Inhalation Index: 613-088-00-6 Eye Dam. 1, H318 (dusts and mists)] Skin Sens. 1A, H317 $= 0.21 \, \text{mg/l}$ Skin Sens. 1, H317: Aguatic Acute 1, H400 Aquatic Chronic 1, C ≥ 0.036% H410 M [Acute] = 1 M [Chronic] = 14,5-dichloro-2-octyl-2H-EC: 264-843-8 ≤0.017 Acute Tox. 4, H302 ATE [Oral] = 567 [1] isothiazol-3-one Acute Tox. 2, H330 CAS: 64359-81-5 mg/kg Skin Corr. 1, H314 Index: 613-335-00-8 ATE [Inhalation Eye Dam. 1, H318 (dusts and mists)] Skin Sens. 1A, H317 = 0.16 mg/lAguatic Acute 1, H400 Skin Corr. 1, H314: Aquatic Chronic 1, C ≥ 5% H410 Skin Irrit. 2. H315: EUH071 $0.025\% \le C < 5\%$ Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: $0.025\% \le C < 3\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100 reaction mass of: 5-chloro-EC: 911-418-6 ≤0.0014 Acute Tox. 3, H301 ATE [Oral] = 53 mg/ [1] Acute Tox. 2, H310 2-methyl-4-isothiazolin-CAS: 55965-84-9 3-one [EC no. 247-500-7] ATE [Dermal] = 50 Index: 613-167-00-5 Acute Tox. 2. H330 and 2-methyl-2H-isothiazol-Skin Corr. 1C, H314 mg/kg 3-one [EC no. 220-239-6] Eye Dam. 1, H318 ATE [Inhalation Skin Sens. 1A, H317 (3:1)(vapours)] = 0.5Aquatic Acute 1, H400 mg/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

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.

See Section 16 for the full text of the H statements declared

above.

M [Chronic] = 100

Contains: > 1 % TiO2

- [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.

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#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**Eve contact** 

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

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Skin contact

> 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.

: Wash out mouth with water. Remove dentures if any. If material has been Ingestion

> swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

aloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

**Over-exposure signs/symptoms** 

Eye contact No specific data. Inhalation : No specific data.

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

> irritation redness

Ingestion : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

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

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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### SECTION 5: Firefighting measures

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

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

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

### SECTION 6: Accidental release measures

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

For non-emergency personnel

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

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

#### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

**Small spill** 

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

Large spill

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

#### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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### SECTION 7: Handling and storage

# Advice on general occupational hygiene

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

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

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

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
<b>2</b> -Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 98 mg/m³.  PEAK 30 minutes: 40 ppm 4 times per shift.  PEAK 30 minutes: 200 mg/m³ 4 times per shift.
ammonia, anhydrous	Regulation on Limit Values - MAC (Austria, 4/2021) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. PEAK 15 minutes: 50 ppm 4 times per shift. PEAK 15 minutes: 36 mg/m³ 4 times per shift.
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser.  TWA 8 hours: 0.05 mg/m³.
<b>2</b> -Butoxyethanol	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.
ammonia, anhydrous	Limit values (Belgium, 12/2023) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³.
<b>2</b> -Butoxyethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.  Limit value 8 hours: 98 mg/m³.  Limit value 15 minutes: 246 mg/m³.  Limit value 15 minutes: 50 ppm.  Limit value 8 hours: 20 ppm.
ammonia, anhydrous	Ministry of Labour and Social Policy and the Ministry of

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Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Ammonia]

Limit value 8 hours: 14 mg/m³. Limit value 15 minutes: 36 mg/m³. Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.

2-Butoxyethanol

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 246 mg/m³. STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m³. ELV 8 hours: 20 ppm.

ammonia, anhydrous

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [amonijak, bezvodni]

STELV 15 minutes: 36 mg/m³. STELV 15 minutes: 50 ppm. ELV 8 hours: 14 mg/m³. ELV 8 hours: 20 ppm.

2-Butoxyethanol

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

through skin.

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

ammonia, anhydrous

Department of labour inspection (Cyprus, 7/2021)

STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³.

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.

ammonia, anhydrous

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [amoniak bezvodý]

TWA 8 hours: 14 mg/m³. STEL 15 minutes: 36 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm.

2-Butoxyethanol

Working Environment Authority (Denmark, 3/2024) Absorbed

through skin.

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

ammonia, anhydrous

Working Environment Authority (Denmark, 3/2024) [ammoniak]

TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 36 mg/m³. STEL 15 minutes: 50 ppm.

2-Butoxyethanol

Occupational exposure limits, Regulation No. 293 (Estonia,

4/2024) Absorbed through skin, Sensitiser.

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

ammonia, anhydrous

Occupational exposure limits, Regulation No. 293 (Estonia,

4/2024) [ammoniaak]

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TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 36 mg/m³. STEL 15 minutes: 50 ppm.

2-Butoxyethanol

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

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

ammonia, anhydrous

EU OEL (Europe, 1/2022) [ammonia, anhydrous]

TWA 8 hours: 20 ppm.
TWA 8 hours: 14 mg/m³.
STEL 15 minutes: 50 ppm.
STEL 15 minutes: 36 mg/m³.

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/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m³.

ammonia, anhydrous

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)

TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³.

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/m³. 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)

ammonia, anhydrous

Ministry of Labor (France, 6/2024) [ammoniac anhydre]

TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

TWA 8 hours: 7 mg/m³. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

STEL 15 minutes: 20 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

STEL 15 minutes: 14 mg/m³. Notes: Binding regulatory limit

values (article R. 4412-149 of the Labor Code)

2-Butoxyethanol

TRGS 900 OEL (Germany, 6/2024) Absorbed through skin.

TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm.

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

ammonia, anhydrous

TRGS 900 OEL (Germany, 6/2024) [Ammoniak]

TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 28 mg/m³. PEAK 15 minutes: 40 ppm.

DFG MAC-values list (Germany, 7/2023) [Ammonia] Develop C.

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TWA 8 hours: 20 ppm.

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SECTION 8: Exposure controls/personal protection PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 14 mg/m<sup>3</sup>. PEAK 15 minutes: 28 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) Skin sensitiser. 3-iodo-2-propynyl-butyl carbamate PEAK 15 minutes: 0.116 mg/m<sup>3</sup>. PEAK 15 minutes: 0.01 ppm. TWA 8 hours: 0.058 mg/m<sup>3</sup>. TWA 8 hours: 0.005 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Skin sensitiser. PEAK 15 minutes: 0.116 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 0.01 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 0.058 mg/m<sup>3</sup>. TWA 8 hours: 0.005 ppm. 1,2-benzisothiazol-3(2H)-one DFG MAC-values list (Germany, 7/2023) Skin sensitiser. 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>. Presidential Decree 307/1986: Occupational exposure limit ammonia, anhydrous values (Greece, 9/2021) [αμμωνία] TWA 8 hours: 50 ppm. TWA 8 hours: 35 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 35 mg/m<sup>3</sup>. 2-Butoxyethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through TWA 8 hours: 98 mg/m<sup>3</sup>. PEAK 15 minutes: 246 mg/m<sup>3</sup>. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [ammónia] ammonia, anhydrous TWA 8 hours: 14 mg/m<sup>3</sup>. PEAK 15 minutes: 36 mg/m<sup>3</sup>. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm. 2-Butoxyethanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. ammonia, anhydrous Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [Ammóníak] Absorbed through skin. STEL 5 minutes: 36 mg/m<sup>3</sup>. STEL 5 minutes: 50 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. 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/m<sup>3</sup>. NAOSH (Ireland, 4/2024) [ammonia, anhydrous] Notes: EU ammonia, anhydrous

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OELV 8 hours: 20 ppm. OELV 8 hours: 14 mg/m3. OELV 15 minutes: 50 ppm. OELV 15 minutes: 36 mg/m<sup>3</sup>.

derived Occupational Exposure Limit Values

2-Butoxvethanol Legislative Decree No. 81/2008, Title IX, Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin.

Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m<sup>3</sup>. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m<sup>3</sup>.

ammonia, anhydrous

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

[Ammoniaca anidra]

Limit value 8 hours: 20 ppm. Limit value 8 hours: 14 mg/m<sup>3</sup>. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 36 mg/m<sup>3</sup>.

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

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

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

[Amonjaks]

TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm.

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

> Absorbed through skin. TWA 8 hours: 50 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. STEL 15 minutes: 100 mg/m<sup>3</sup>. STEL 15 minutes: 20 ppm.

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

[amoniakas]

TWA 8 hours: 14 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 36 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

2-Butoxyethanol Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

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

Grand-Duchy Regulation 2016. Chemical agents. Annex I ammonia, anhydrous

(Luxembourg, 3/2021) [ammoniac anhydre]

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TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 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/m3. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>.

EU OEL (Europe, 1/2022) [ammonia, anhydrous] ammonia, anhydrous

> TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m<sup>3</sup>.

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2-Butoxvethanol

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

TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.

ammonia, anhydrous

Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) [ammoniak]

TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 36 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.

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>.

ammonia, anhydrous

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

TWA 8 hours: 15 ppm. TWA 8 hours: 11 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m<sup>3</sup>.

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>.

ammonia, anhydrous

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) [ammonia] TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 28 mg/m<sup>3</sup>.

2-Butoxyethanol

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

TWA 8 hours: 20 ppm.

ammonia, anhydrous

Portuguese Institute of Quality (Portugal, 11/2014) [amoníaco]

TWA 8 hours: 25 ppm. STEL 15 minutes: 35 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/m<sup>3</sup>. Short term 15 minutes: 50 ppm.

ammonia, anhydrous

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [amoniac]

VLA 8 hours: 14 mg/m<sup>3</sup>. VLA 8 hours: 20 ppm.

Short term 15 minutes: 36 mg/m<sup>3</sup>. Short term 15 minutes: 50 ppm.

2-Butoxyethanol

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

Absorbed through skin, Inhalation 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.

ammonia, anhydrous

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

[amoniak] Inhalation sensitiser. TWA 8 hours: 14 mg/m³ (ammonia). TWA 8 hours: 20 ppm (ammonia).

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2-Butoxyethanol

STEL 15 minutes: 36 mg/m³ (ammonia). STEL 15 minutes: 50 ppm (ammonia).

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/m<sup>3</sup>. TWA 8 hours: 20 ppm.

KTV 15 minutes: 246 mg/m<sup>3</sup> 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].

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

TWA 8 hours: 14 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm.

KTV 15 minutes: 36 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].

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

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

TWA 8 hours: 0.005 ppm.

KTV 15 minutes: 0.116 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

TWA 8 hours: 0.058 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 245 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

National institute of occupational safety and health (Spain, 1/2024) [amoníaco]

TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m<sup>3</sup>.

Work environment authority Regulation 2018:1 (Sweden,

11/2022) Absorbed through skin.

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m3. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>.

Work environment authority Regulation 2018:1 (Sweden,

11/2022) [ammonia]

TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 5 minutes: 50 ppm. STEL 5 minutes: 36 mg/m<sup>3</sup>.

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>.

SUVA (Switzerland, 1/2024) [Ammoniak]

TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 40 ppm. STEL 15 minutes: 28 mg/m<sup>3</sup>.

ammonia, anhydrous

3-iodo-2-propynyl-butyl carbamate

2-Butoxyethanol

ammonia, anhydrous

2-Butoxyethanol

ammonia, anhydrous

2-Butoxyethanol

ammonia, anhydrous

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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.

3-iodo-2-propynyl-butyl carbamate

220-239-6] (3:1)

**2**-Butoxyethanol

ammonia, anhydrous

SUVA (Switzerland, 1/2024) Sensitiser.

STEL 15 minutes: 0.24 mg/m³. Form: vapour and aerosols. STEL 15 minutes: 0.02 ppm. Form: vapour and aerosols. TWA 8 hours: 0.01 ppm. Form: vapour and aerosols. TWA 8 hours: 0.12 mg/m³. Form: vapour and aerosols.

SUVA (Switzerland, 1/2024) Sensitiser.

STEL 15 minutes: 0.4 mg/m³. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction.

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

through skin.

STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm.

STEL 15 minutes: 246 mg/m³. TWA 8 hours: 123 mg/m³.

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

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

#### **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 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.	
Z-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).
<b>2</b> -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 long-term 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.	

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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

**Recommended monitoring** procedures

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 workdavs.

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.

: 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** 

2-Butoxyethanol

Result

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>

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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

2.8 mg/m³ Effects: Local

DNEL - General population - Short term - Oral

6.8 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

6.8 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Dermal

6.8 mg/kg bw/day Effects: Systemic

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

6.8 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Short term - Dermal** 

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

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

6.8 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation

7.2 mg/m³ Effects: Local

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

14 mg/m³ <u>Effects</u>: Local

DNEL - General population - Short term - Inhalation

23.8 mg/m³ Effects: Systemic

DNEL - General population - Long term - Inhalation

23.8 mg/m³ Effects: Systemic

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ammonia, anhydrous

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DNEL - Workers - Short term - Inhalation

36 mg/m³ <u>Effects</u>: Local

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

47.6 mg/m³
<u>Effects</u>: Systemic

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

47.6 mg/m³ Effects: Systemic

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

3-iodo-2-propynyl-butyl carbamate

DNEL - General population - Long term - Oral

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

DNEL - General population - Long term - Inhalation

0.31 mg/m³ Effects: Systemic

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

0.9 mg/kg bw/day Effects: Systemic

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

1.27 mg/m³ Effects: Systemic

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

1.8 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

0.023 mg/m³ Effects: Systemic

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

0.07 mg/m³ Effects: Systemic

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

1.16 mg/m³ Effects: Local

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

1.16 mg/m³ <u>Effects</u>: Local

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

2 mg/kg bw/day Effects: Systemic

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

0.345 mg/kg bw/day Effects: Systemic

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

0.966 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

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1.2 mg/m³ Effects: Systemic

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

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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)

6.81 mg/m³
Effects: Systemic

DNEL - General population - Long term - Inhalation

0.02 mg/m³ Effects: Local

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

0.02 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

0.04 mg/m³ Effects: Local

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

0.04 mg/m³ Effects: Local

DNEL - General population - Long term - Oral

0.09 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

0.11 mg/kg bw/day Effects: Systemic

#### **PNECs**

Not available.

#### 8.2 Exposure controls

Appropriate engineering controls

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

#### **Individual protection measures**

**Hygiene measures** 

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

Eye/face protection

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

Skin protection

Hand protection

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

Recommendations: Wear suitable gloves tested to EN374.

> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm Not recommended polyvinyl alcohol (PVA) gloves

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**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type (spray application): A P

**Environmental exposure** controls

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

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

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

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid.
Colour : Various
Odour : Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
water value of the state of the	100	212	
2-Butoxyethanol	171 to 171.5	339.8 to 340.7	IP 123-93

Flammability : Not available.

Lower and upper explosion

limit

: Lower: Not applicable. Upper: Not applicable.

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

Auto-ignition temperature

Ingredient name	°C	°F	Method
Butoxyethanol	230	446	DIN 51794

**Decomposition temperature**: Not available.

**PH** : 8.4 to 9 [Conc. (% w/w): 100%]

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

140t applicabl

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-Butoxyethanol	0.75006	0.1				

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### SECTION 9: Physical and chemical properties

: Not available. **Relative density Density** 1 g/cm<sup>3</sup> 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

: Not available. **Explosive properties** : Not available. **Oxidising properties** 

9.2.2 Other safety characteristics

Not applicable.

### SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

10.3 Possibility of 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

Rat - Inhalation - LC50 Gas. ammonia, anhydrous

2000 ppm [4 hours]

Rat - Inhalation - LC50 Gas.

9500 ppm [1 hours]

Rat - Inhalation - LC50 Vapour

4673 mg/m3 [4 hours]

Reaction mass of Bis(1,2,2,6,6-pentamethyl-

4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Rat - Oral - LD50

3230 mg/kg

Rat - Dermal - LD50

>3170 mg/kg

3-iodo-2-propynyl-butyl carbamate Rat - Oral - LD50

400 mg/kg

Rat - Dermal - LD50

>2000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

0.763 mg/l [4 hours]

Rat - Inhalation - LC50 Dusts and mists

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0.67 g/m3 [4 hours]

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

Rat - Oral - LD50 1020 mg/kg

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

Rat - Oral - LD50 1585 mg/kg

**OECD** [Acute Oral Toxicity]

Rabbit - Dermal - LD50

>652 mg/kg

**OECD** [Acute Dermal Toxicity]

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

0.26 mg/l [4 hours]

OECD [Acute Inhalation Toxicity]

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

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

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

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
QUATOP 2920-04 - BASE T	72008.6	N/A	361292.3	148.4	335.5
2-Butoxyethanol	1200	N/A	N/A	3	N/A
ammonia, anhydrous	N/A	N/A	2000	4.673	N/A
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A
3-iodo-2-propynyl-butyl carbamate	400	N/A	N/A	N/A	0.67
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	N/A	N/A	N/A	0.16
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	53	50	N/A	0.5	N/A

#### Skin corrosion/irritation

Product/ingredient name

2-Butoxyethanol

Result

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

1,2-benzisothiazol-3(2H)-one Human - Skin - Mild irritant

> Duration of treatment/exposure: 48 hours Amount/concentration applied: 5 %

Human - Skin - Severe irritant

Amount/concentration applied: 0.01 %

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

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

Serious eye damage/eye irritation

Product/ingredient name Result

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Z-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

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

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

**Respiratory corrosion/irritation** 

Not available.

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

Respiratory or skin sensitization

Product/ingredient name Result

3-iodo-2-propynyl-butyl carbamate

Guinea pig - skin

Result: Not sensitizing

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

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

**Germ cell mutagenicity** 

Product/ingredient name Result

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

Result: Negative

Conclusion/Summary [Product] : Not available.

**Carcinogenicity** 

Not available.

Conclusion/Summary [Product] : Not available.

**Reproductive toxicity** 

Product/ingredient name Result

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

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

<u>Maternal toxicity</u>: Positive <u>Developmental</u>: Negative

Rabbit - Female - Oral

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

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<u>Maternal toxicity</u>: Negative <u>Developmental</u>: Negative

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

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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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#### 12.1 Toxicity

#### Product/ingredient name

2-Butoxyethanol

#### Result

#### Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

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

Effect: Mortality

#### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

 $800000 \ \mu g/l \ [48 \ hours]$ 

Effect: Mortality

ammonia, anhydrous

#### Acute - LC50 - Fresh water

Fish - Carp - Hypophthalmichthys nobilis

300 µg/l [96 hours] Effect: Mortality

#### Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna

0.53 ppm [48 hours] Effect: Mortality

#### Acute - EC50 - Marine water

Algae - Sea Lettuce - Ulva fasciata - Zoea

29.2 mg/l [96 hours] Effect: Reproduction

#### **Chronic - NOEC - Marine water**

Fish - Sea bass - Dicentrarchus labrax

Weight: 131.3 g 0.204 mg/l [62 days] Effect: Biochemistry

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

#### Acute - LC50

OECD [Fish, Acute Toxicity Test]

Fish - Brachydanio rerio 0.9 mg/l [96 hours]

#### **EC50**

OECD [Alga, Growth Inhibition Test]

Aquatic plants - Desmodesmodus subspicatus

1.68 mg/l [72 hours]

#### **Chronic - NOEC**

OECD [Daphnia Magna Reproduction Test]

Daphnia - Daphnia 1 mg/l [21 days]

3-iodo-2-propynyl-butyl carbamate

#### Acute - LC50 - Fresh water

ΕU

Fish - Trout - Oncorhynchus mykiss

0.067 mg/l [96 hours]

### Acute - NOEC - Fresh water

ΕU

Fish - Trout - Oncorhynchus mykiss

0.049 mg/l [96 hours]

#### Acute - EC50 - Fresh water

ΕU

Daphnia - Daphnia magna

0.16 mg/l [48 hours]

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#### **Chronic - NOEC - Fresh water**

Daphnia - Daphnia - Daphnia Magna

0.05 mg/l [21 days]

#### Acute - EC50 - Fresh water

Algae - Algae - Scenedemus subspicatus

0.022 mg/l [72 hours]

#### 1,2-benzisothiazol-3(2H)-one Acute - LC50 - Fresh water

OECD [Fish, Acute Toxicity Test] Fish - Trout - Onorhynchus Mykiss

1.9 mg/l [96 hours]

#### Acute - EC50

OECD 202 [Daphnia sp. Acute Immobilization Test and

Reproduction Test]

Daphnia - Daphnia - Daphnia Magna

3.7 mg/l [48 hours]

#### Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.36 mg/l [72 hours]

#### Acute - NOEC - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum

0.15 mg/l [72 hours]

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

#### Acute - EC50 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata

0.003 mg/l [72 hours] Effect: Population

#### Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

0.001 mg/l [48 hours] Effect: Intoxication

#### Acute - LC50 - Fresh water

**US EPA** 

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

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

#### **Chronic - NOEC**

**US EPA** 

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

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0.56 ppb [97 days] Effect: Growth

#### **Chronic - NOEC - Marine water**

OECD

Algae - Diatom - Nitzschia pungens

19.789 µg/l [96 hours] Effect: Population

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

#### 12.2 Persistence and degradability

**Product/ingredient name** Result

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

EU

24% [28 days]

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

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

### 12.3 Bioaccumulative potential

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

### 12.4 Mobility in soil

### Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
<b>2</b> -Butoxyethanol	1.83	67.3685
3-iodo-2-propynyl-butyl carbamate	1.13	13.4558
1,2-benzisothiazol-3(2H)-one	1.86	73.142
4,5-dichloro-2-octyl-2H-isothiazol-3-one	3.41	2562.01

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	Т	vPvM	vP	vM
<b>2</b> -Butoxyethanol	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
ammonia, anhydrous	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
4,5-dichloro-2-octyl-2H- isothiazol-3-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

Mobility

: Not 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]

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Product/ingredient name	PBT	P	В	T	vPvB	νP	vB
<b>2</b> -Butoxyethanol	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
ammonia, anhydrous	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
4,5-dichloro-2-octyl-2H- isothiazol-3-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	P	В	Т	vPvB	vP	vB	
2-Butoxyethanol	No	No	No	No	No	No	No	
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No	
ammonia, anhydrous	No	No	No	No	No	No	No	
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	No	No	No	No	
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No	
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No	
4,5-dichloro-2-octyl-2H- isothiazol-3-one	No	No	No	No	No	No	No	
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No	

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

### 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\*, 200127\*

**Packaging** 

**Methods of disposal** 

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

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**

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Product/ingredient name	%	Designation [Usage]
AQUATOP 2920-04 - BASE T	≥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

organic solvents

: Permitted.

#### **Belgium**

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

Ingredient name	Status
Cobalt et ses composés	Listed

#### **Czech Republic**

Storage code : IV

**Denmark** 

: <del>M</del>-1 Fire class **MAL-code** : 3-6

**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, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

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### **SECTION 15: Regulatory information**

MAL-code: 3-6

**Application:** When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomizing guns.

- Protective clothing 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. 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. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

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

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

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

When spraying in existing\* spray booths, if the operator is outside the spray zone. 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 full mask and protective clothing 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, protective clothing 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.

Low-boiling liquids

: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.

**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

Finland France

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

RG 84

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Reinforced medical surveillance

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

Germany TRGS 905

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### **SECTION 15: Regulatory information**

Ingredient name	Carcinogen	•	toxicity - Fertility	Reproductive toxicity - Development
Cobalt compounds	K2	M1A	RF1A	RD1A

Storage class (TRGS 510) : 10 Hazardous incident ordinance

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

Hazard class for water : 3

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
<b>5</b> .2.1	Total dust	39.6
5.2.4 [III]	Gaseous inorganic substances	0.55
5.2.5	Organic substances	4.9
5.2.5 [I]	Organic substances	3.8
5.2.7.1.1 [I]	Carcinogenic substances	0.046

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

value in waste water.

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

**Water Discharge Policy** 

(ABM)

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

environment. Decontamination effort: A

Norway
Sweden
Switzerland

VOC content : VOC (w/w): 3.1%

**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.

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

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### **SECTION 16: Other information**

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 Aquatic Chronic 3, H412	Calculation method Calculation method

#### Full text of abbreviated H statements

<b>⊬</b> 221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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]

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
Eye Dam. 1	SERIOUS EYÈ DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 2	FLAMMABLE GASES - Category 2
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RF 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1

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### **SECTION 16: Other information**

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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