

SAFETY DATA SHEET



AQUAPRIMER 2900-06 - All variants

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

1.1 Product identifier

Product name : AQUAPRIMER 2900-06 - 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 responsible for this SDS : Prod-safe@teknos.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317
Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapour.

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

Hazardous ingredients : Contains: 1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-3-one and 2-Octyl-2H-isothiazol-3-one

Supplemental label elements : Contains biocidal products for in-can preservation: Bronopol and BIT and MIT and OIT.

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AQUAPRIMER 2900-06 - All variants

Label No : 47025

SECTION 2: Hazards identification

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 : This mixture does not contain any substances that are assessed to be a PBT or a
for PBT or vPvB according vPvB.
to Regulation (EC) No.
1907/2006, Annex XIII

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|------------------------------|---|--------|--|--|---------|
| Dipropyleneglycolmethylether | REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8 | ≤3 | Not classified. | - | [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] |
| 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] |
| Bronopol | EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8 | ≤0.1 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 | ATE [Oral] = 307 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 10 | [1] |
| 1,2-benzisothiazol-3(2H)-one | EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6 | <0.036 | Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C ≥ 0.036% M [Acute] = 1 M [Chronic] = 1 | [1] |
| 2-methyl-2H-isothiazol-3-one | EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9 | <0.01 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 | ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l | [1] |

SECTION 3: Composition/information on ingredients

| | | | | | |
|-----------------------------|---|-------|--|---|-----|
| 2-Octyl-2H-isothiazol-3-one | EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5 | ≤0.01 | Aquatic Chronic 1, H410 EUH071 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 | Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1 ATE [Oral] = 125 mg/kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100 | [1] |
|-----------------------------|---|-------|--|---|-----|

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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.

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** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen 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. 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

SECTION 6: Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

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

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|------------------------------|--|
| Dipropylenglycolmethylether | Regulation on Limit Values - MAC (Austria, 12/2025) [Dipropylenglykolmonomethylether (Isomerengemisch)] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 307 mg/m ³ . CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 614 mg/m ³ 8 times per shift. |
| 2-Butoxyethanol | Regulation on Limit Values - MAC (Austria, 12/2025) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . PEAK 30 minutes: 40 ppm 4 times per shift. PEAK 30 minutes: 200 mg/m ³ 4 times per shift. |
| ammonia, anhydrous | Regulation on Limit Values - MAC (Austria, 12/2025) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . PEAK 15 minutes: 50 ppm 4 times per shift. PEAK 15 minutes: 36 mg/m ³ 4 times per shift. |
| 1,2-benzisothiazol-3(2H)-one | Regulation on Limit Values - MAC (Austria, 12/2025) Skin sensitiser. |
| 2-methyl-2H-isothiazol-3-one | Regulation on Limit Values - MAC (Austria, 12/2025) [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 ³ . |
| 2-Octyl-2H-isothiazol-3-one | Regulation on Limit Values - MAC (Austria, 12/2025) Absorbed through skin , Sensitiser. TWA 8 hours: 0.05 mg/m ³ . Form: Inhalable fraction. CEIL: 0.05 mg/m ³ . Form: Inhalable fraction. |
| Dipropylenglycolmethylether | Limit values (Belgium, 12/2023) [Dipropyleenglykolmonomethylether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m ³ . |
| 2-Butoxyethanol | Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . |
| ammonia, anhydrous | Limit values (Belgium, 12/2023) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m ³ . |
| Dipropylenglycolmethylether | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [2-(Methoxymethyletoxy)propanol] Absorbed through skin. Limit value 8 hours: 308 mg/m ³ . Limit value 8 hours: 50 ppm. |
| 2-Butoxyethanol | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 8 hours: 98 mg/m ³ . Limit value 15 minutes: 246 mg/m ³ . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm. |
| ammonia, anhydrous | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Ammonia] Limit value 8 hours: 14 mg/m ³ . Limit value 15 minutes: 36 mg/m ³ . Limit value 15 minutes: 50 ppm. |

SECTION 8: Exposure controls/personal protection

Dipropylenglycolmethylether

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, 10/2025) [(2-metoksimetiletoksi)-propanol] Absorbed through skin.

ELV 8 hours: 308 mg/m³.

ELV 8 hours: 50 ppm.

2-Butoxyethanol

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 10/2025) 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, 10/2025) [amonijak, bezvodni]

STELV 15 minutes: 36 mg/m³.

STELV 15 minutes: 50 ppm.

ELV 8 hours: 14 mg/m³.

ELV 8 hours: 20 ppm.

Dipropylenglycolmethylether

Department of Labor Inspection, Chemical Agents (Cyprus, 11/2025) Absorbed through skin.

TWA 8 hours: 50 ppm.

TWA 8 hours: 308 mg/m³.

2-Butoxyethanol

Department of Labor Inspection, Chemical Agents (Cyprus, 11/2025) 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 Labor Inspection, Chemical Agents (Cyprus, 11/2025)

STEL 15 minutes: 50 ppm.

STEL 15 minutes: 36 mg/m³.

TWA 8 hours: 20 ppm.

TWA 8 hours: 14 mg/m³.

Dipropylenglycolmethylether

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 11/2025) [(2-methoxymethylethoxy)propanol]

Absorbed through skin.

TWA 8 hours: 270 mg/m³.

TWA 8 hours: 43.8 ppm.

STEL 15 minutes: 550 mg/m³.

STEL 15 minutes: 89.3 ppm.

2-Butoxyethanol

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 11/2025) Absorbed through skin.

TWA 8 hours: 98 mg/m³.

TWA 8 hours: 20 ppm.

STEL 15 minutes: 200 mg/m³.

STEL 15 minutes: 40.7 ppm.

ammonia, anhydrous

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 11/2025) [amoniak bezvodý]





TWA 8 hours: 14 mg/m³.

STEL 15 minutes: 36 mg/m³.

TWA 8 hours: 20 ppm.

STEL 15 minutes: 50 ppm.

SECTION 8: Exposure controls/personal protection

| | |
|---|---|
|  Dipropylenglycolmethylether | Working Environment Authority (Denmark, 11/2025) [dipropylenglycolmethylether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 309 mg/m ³ . STEL 15 minutes: 618 mg/m ³ . STEL 15 minutes: 100 ppm. |
| 2-Butoxyethanol | Working Environment Authority (Denmark, 11/2025) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm. |
| ammonia, anhydrous | Working Environment Authority (Denmark, 11/2025) [ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 36 mg/m ³ . STEL 15 minutes: 50 ppm. |
|  Dipropylenglycolmethylether | Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [dipropüleenglükooli monometüüleeter] Absorbed through skin. TWA 8 hours: 308 mg/m ³ . TWA 8 hours: 50 ppm. |
| 2-Butoxyethanol | Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin , Sensitiser. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm. |
| ammonia, anhydrous | Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ammoniaak] TWA 8 hours: 14 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 36 mg/m ³ . STEL 15 minutes: 50 ppm. |
|  Dipropylenglycolmethylether | EU OEL (Europe, 1/2022) [(2-Methoxymethylethoxy)-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m ³ . |
| 2-Butoxyethanol | EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . |
| ammonia, anhydrous | EU OEL (Europe, 1/2022) [ammonia, anhydrous] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m ³ . |
|  Dipropylenglycolmethylether | Institute of Occupational Health, Ministry of Social Affairs (Finland, 2/2025) [(2-Metoksimeetylietoksi)-propanoli] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 310 mg/m ³ . |
| 2-Butoxyethanol | Institute of Occupational Health, Ministry of Social Affairs (Finland, 2/2025) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m ³ . |
| ammonia, anhydrous | Institute of Occupational Health, Ministry of Social Affairs (Finland, 2/2025) |

SECTION 8: Exposure controls/personal protection

Dipropyleneglycolmethylether

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

Ministry of Labor (France, 6/2024) [(2-méthoxyméthyléthoxy)-propanol] Absorbed through skin.

TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
TWA 8 hours: 308 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

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/m³. 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)

Dipropyleneglycolmethylether

TRGS 900 OEL (Germany, 12/2025) [(2-Methoxymethylethoxy)propanol]

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

DFG MAC-values list (Germany, 7/2025) [Dipropylene glycol monomethyl ether] Develop D.

TWA 8 hours: 50 ppm.
PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].
TWA 8 hours: 310 mg/m³.
PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour].

2-Butoxyethanol

TRGS 900 OEL (Germany, 12/2025) 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, 7/2025) Develop C. Absorbed through skin.

TWA 8 hours: 10 ppm.
PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].
TWA 8 hours: 49 mg/m³.
PEAK 15 minutes: 98 mg/m³ 4 times per shift [Interval: 1 hour].

ammonia, anhydrous

TRGS 900 OEL (Germany, 12/2025) [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, 7/2025) [Ammonia] Develop C.

TWA 8 hours: 20 ppm.
PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].
TWA 8 hours: 14 mg/m³.
PEAK 15 minutes: 28 mg/m³ 4 times per shift [Interval: 1 hour].

Bronopol

DFG MAC-values list (Germany, 7/2025) Absorbed through skin ,

SECTION 8: Exposure controls/personal protection

1,2-benzisothiazol-3(2H)-one
2-methyl-2H-isothiazol-3-one
2-Octyl-2H-isothiazol-3-one

Skin sensitiser.

DFG MAC-values list (Germany, 7/2025) Skin sensitiser.

DFG MAC-values list (Germany, 7/2025) Skin sensitiser.

TRGS 900 OEL (Germany, 12/2025) Absorbed through skin.

TWA 8 hours: 0.05 mg/m³. Form: Inhalable fraction.

PEAK 15 minutes: 0.1 mg/m³. Form: Inhalable fraction.

DFG MAC-values list (Germany, 7/2025) Develop C. Absorbed through skin, Skin sensitiser.

TWA 8 hours: 0.05 mg/m³. Form: inhalable fraction.

PEAK 15 minutes: 0.1 mg/m³ 4 times per shift [Interval: 1 hour].

Form: inhalable fraction.

Dipropyleneglycolmethylether

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [μεθοξυμεθυλ-αιθοξυ-προπανόλη, 2-]

Absorbed through skin.

TWA 8 hours: 100 ppm.

TWA 8 hours: 600 mg/m³.

STEL 15 minutes: 150 ppm.

STEL 15 minutes: 900 mg/m³.

2-Butoxyethanol

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin.

TWA 8 hours: 25 ppm.

TWA 8 hours: 120 mg/m³.

ammonia, anhydrous

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [αμμωνία]

TWA 8 hours: 50 ppm.

TWA 8 hours: 35 mg/m³.

STEL 15 minutes: 50 ppm.

STEL 15 minutes: 35 mg/m³.

Dipropyleneglycolmethylether

5/2020. (II. 6.) ITM Decree (Hungary, 2/2026) [(2-metoximetiletoxi)-propanol]

TWA 8 hours: 308 mg/m³.

TWA 8 hours: 50 ppm.

2-Butoxyethanol

5/2020. (II. 6.) ITM Decree (Hungary, 2/2026) Absorbed through skin.

TWA 8 hours: 98 mg/m³.

PEAK 15 minutes: 246 mg/m³.

PEAK 15 minutes: 50 ppm.

TWA 8 hours: 20 ppm.

ammonia, anhydrous

5/2020. (II. 6.) ITM Decree (Hungary, 2/2026) [ammónia]

TWA 8 hours: 14 mg/m³.

PEAK 15 minutes: 36 mg/m³.

PEAK 15 minutes: 50 ppm.

TWA 8 hours: 20 ppm.

Dipropyleneglycolmethylether

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Díprópýlenglýkólmetýleter] Absorbed through skin.

TWA 8 hours: 300 mg/m³.

TWA 8 hours: 50 ppm.

2-Butoxyethanol

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) 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.

ammonia, anhydrous

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Ammóníak] Absorbed through skin.

STEL 5 minutes: 36 mg/m³.

STEL 5 minutes: 50 ppm.

TWA 8 hours: 14 mg/m³.

TWA 8 hours: 20 ppm.

SECTION 8: Exposure controls/personal protection

| | |
|--|--|
| <p>Diisopropylenglycolmethylether</p> <p>2-Butoxyethanol</p> <p>ammonia, anhydrous</p> | <p>NAOSH (Ireland, 4/2024) [(2-methoxymethylethoxy)-1-propanol] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 308 mg/m³.</p> <p>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.</p> <p>NAOSH (Ireland, 4/2024) [ammonia, anhydrous] Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 14 mg/m³. OELV 15 minutes: 50 ppm. OELV 15 minutes: 36 mg/m³.</p> |
| <p>Diisopropylenglycolmethylether</p> <p>2-Butoxyethanol</p> <p>ammonia, anhydrous</p> | <p>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 308 mg/m³.</p> <p>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m³. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m³.</p> <p>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) [ammoniac anidra] Limit value 8 hours: 20 ppm. Limit value 8 hours: 14 mg/m³. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 36 mg/m³.</p> |
| <p>Diisopropylenglycolmethylether</p> <p>2-Butoxyethanol</p> <p>ammonia, anhydrous</p> | <p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Metoksipropoksi propanols] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.</p> <p>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.</p> <p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Amonjaks] TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³. TWA 8 hours: 20 ppm.</p> |
| <p>Diisopropylenglycolmethylether</p> <p>2-Butoxyethanol</p> | <p>Lithuanian Hygiene Standard HN 23 (Lithuania, 10/2025) Absorbed through skin. TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 450 mg/m³. STEL 15 minutes: 75 ppm.</p> <p>Lithuanian Hygiene Standard HN 23 (Lithuania, 10/2025) Absorbed through skin. TWA 8 hours: 50 mg/m³. TWA 8 hours: 10 ppm.</p> |

SECTION 8: Exposure controls/personal protection

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| ammonia, anhydrous | <p>STEL 15 minutes: 100 mg/m³. STEL 15 minutes: 20 ppm.</p> <p>Lithuanian Hygiene Standard HN 23 (Lithuania, 10/2025) [amoniakas] TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 36 mg/m³. STEL 15 minutes: 50 ppm.</p> |
| Dipropylenglycolmethylether | <p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [(2-méthoxyméthyléthoxy)-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.</p> |
| 2-Butoxyethanol | <p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (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.</p> |
| ammonia, anhydrous | <p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [ammoniac anhydre] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³.</p> |
| Dipropylenglycolmethylether | <p>EU OEL (Europe, 1/2022) [(2-Methoxymethylethoxy)-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.</p> |
| 2-Butoxyethanol | <p>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.</p> |
| ammonia, anhydrous | <p>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.</p> |
| Dipropylenglycolmethylether | <p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 11/2025) [dipropyleenglycolmethylether] TWA 8 hours: 300 mg/m³. TWA 8 hours: 48.7 ppm.</p> |
| 2-Butoxyethanol | <p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 11/2025) 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.</p> |
| ammonia, anhydrous | <p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 11/2025) [ammoniak] TWA 8 hours: 14 mg/m³. STEL 15 minutes: 36 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.</p> |
| Dipropylenglycolmethylether | <p>FOR-2011-12-06-1358 (Norway, 12/2025) [(2-metoksymetyletoksy)-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³.</p> |
| 2-Butoxyethanol | <p>FOR-2011-12-06-1358 (Norway, 12/2025) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³.</p> |

SECTION 8: Exposure controls/personal protection

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| ammonia, anhydrous | <p>FOR-2011-12-06-1358 (Norway, 12/2025) [ammoniakk] TWA 8 hours: 15 ppm. TWA 8 hours: 11 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³.</p> |
| Dipropylenglycolmethylether | <p>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [dipropylene glycol methyl ether] Absorbed through skin. TWA 8 hours: 240 mg/m³. STEL 15 minutes: 480 mg/m³.</p> |
| 2-Butoxyethanol | <p>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) Absorbed through skin. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 200 mg/m³.</p> |
| ammonia, anhydrous | <p>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [ammonia] TWA 8 hours: 14 mg/m³. STEL 15 minutes: 28 mg/m³.</p> |
| Dipropylenglycolmethylether | <p>Portuguese Institute of Quality (Portugal, 11/2014) [2-metoximetiletoksiopropanol] Absorbed through skin. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [2-metoximetiletoksiopropanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.</p> |
| 2-Butoxyethanol | <p>Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm. Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³.</p> |
| ammonia, anhydrous | <p>Portuguese Institute of Quality (Portugal, 11/2014) [amoniaco] TWA 8 hours: 25 ppm. STEL 15 minutes: 35 ppm. Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³.</p> |
| Dipropylenglycolmethylether | <p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 308 mg/m³. VLA 8 hours: 50 ppm.</p> |
| 2-Butoxyethanol | <p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m³. VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m³. Short term 15 minutes: 50 ppm.</p> |

SECTION 8: Exposure controls/personal protection

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| ammonia, anhydrous | <p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [amoniac] VLA 8 hours: 14 mg/m³. VLA 8 hours: 20 ppm. Short term 15 minutes: 36 mg/m³. Short term 15 minutes: 50 ppm.</p> |
| Dipropyleneglycolmethylether | <p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [2-metoxymetyl-etoxypropanol] Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm.</p> |
| 2-Butoxyethanol | <p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) 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.</p> |
| ammonia, anhydrous | <p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [amoniak] Inhalation sensitiser. TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 36 mg/m³. STEL 15 minutes: 50 ppm.</p> |
| Dipropyleneglycolmethylether | <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2025) [(2-metoksimetiletoksi)propanol] Absorbed through skin. TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 308 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p> |
| 2-Butoxyethanol | <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2025) 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].</p> |
| ammonia, anhydrous | <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2025) [amoniak] TWA 8 hours: 14 mg/m³. 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].</p> |
| 2-Octyl-2H-isothiazol-3-one | <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2025) Absorbed through skin. TWA 8 hours: 0.05 mg/m³. Form: Inhalable fraction. KTV 15 minutes: 0.1 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction.</p> |






SECTION 8: Exposure controls/personal protection

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|---|---|
| <p>Diipropyleneglycolmethylether</p> <p>2-Butoxyethanol</p> <p>ammonia, anhydrous</p> | <p>National institute of occupational safety and health (Spain, 3/2025) [éter metílico de dipropilenglicol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m³.</p> <p>National institute of occupational safety and health (Spain, 3/2025) 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.</p> <p>National institute of occupational safety and health (Spain, 3/2025) [amoniaco] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³.</p> |
| <p>Diipropyleneglycolmethylether</p> <p>2-Butoxyethanol</p> <p>ammonia, anhydrous</p> | <p>Work environment authority Regulation 2023:14 (Sweden, 6/2025) [dipropylene glycol monomethyl ether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 450 mg/m³.</p> <p>Work environment authority Regulation 2023:14 (Sweden, 6/2025) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.</p> <p>Work environment authority Regulation 2023:14 (Sweden, 6/2025) [ammonia] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 5 minutes: 50 ppm. STEL 5 minutes: 36 mg/m³.</p> |
| <p>Diipropyleneglycolmethylether</p> <p>2-Butoxyethanol</p> <p>ammonia, anhydrous</p> | <p>SUVA (Switzerland, 1/2026) [Dipropylenglykolmethylether (Isomerengemisch)] STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 300 mg/m³. Form: vapour and aerosols. TWA 8 hours: 50 ppm. Form: vapour and aerosols. TWA 8 hours: 300 mg/m³. Form: vapour and aerosols.</p> <p>SUVA (Switzerland, 1/2026) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m³. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m³.</p> <p>SUVA (Switzerland, 1/2026) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 40 ppm. STEL 15 minutes: 28 mg/m³.</p> |
| <p>2-Octyl-2H-isothiazol-3-one</p> <p>2-Butoxyethanol</p> <p>ammonia, anhydrous</p> | <p>SUVA (Switzerland, 1/2026) Absorbed through skin , Sensitiser. TWA 8 hours: 0.05 mg/m³. Form: Inhalable fraction. STEL 15 minutes: 0.1 mg/m³. Form: Inhalable fraction.</p> <p>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.</p> <p>EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia] STEL 15 minutes: 25 mg/m³. Form: anhydrous.</p> |





SECTION 8: Exposure controls/personal protection

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 |
|---|---|
| <p>No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known.</p> | |
| <p> Butoxyethanol</p> | <p>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 10/2025) 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.</p> |
| <p>No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known.</p> | |
| <p> Butoxyethanol</p> | <p>Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2- butoxyéthanol et son acétate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).</p> |
| <p> Butoxyethanol</p> | <p>DFG BEI-values list (Germany, 7/2025) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts. TRGS 903 - BEI Values (Germany, 12/2025) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.</p> |
| <p>No exposure indices known. No exposure indices known. No exposure indices known.</p> | |
| <p> Butoxyethanol</p> | <p>NAOSH BGVs (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.</p> |
| <p>No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known.</p> | |
| <p> Butoxyethanol</p> | <p>Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.</p> |

SECTION 8: Exposure controls/personal protection

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| <p>No exposure indices known. No exposure indices known.  2-Butoxyethanol</p> | <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2025) BLV: 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.</p> |
| <p> 2-Butoxyethanol</p> | <p>National institute of occupational safety and health (Spain, 3/2025) BLV: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.</p> |
| <p>No exposure indices known.  2-Butoxyethanol</p> | <p>SUVA (Switzerland, 1/2026) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</p> |
| <p> 2-Butoxyethanol</p> | <p>EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.</p> |

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

DNELs/DMELs

Product/ingredient name

 Dipropyleneglycolmethylether

Result

DNEL - General population - Long term - Oral

36 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

37.2 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

121 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

283 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

308 mg/m³

Effects: 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

SECTION 8: Exposure controls/personal protection

59 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

98 mg/m³

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

ammonia, anhydrous

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

Effects: 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

Effects: 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

SECTION 8: Exposure controls/personal protection

Bronopol

DNEL - Workers - Short term - Inhalation

36 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

47.6 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

47.6 mg/m³

Effects: Systemic

DNEL - General population - Short term - Oral

0.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

1.8 mg/m³

Effects: Systemic

DNEL - General population - Short term - Dermal

2.1 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

6 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Inhalation

10.5 mg/m³

Effects: Systemic

DNEL - General population - Short term - Dermal

4 µg/cm²

Effects: Local

DNEL - General population - Long term - Dermal

4 µg/cm²

Effects: Local

DNEL - Workers - Short term - Dermal

8 µg/cm²

Effects: Local

DNEL - Workers - Long term - Dermal

8 µg/cm²

Effects: Local

DNEL - General population - Long term - Oral

0.18 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

0.6 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

0.6 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

0.6 mg/m³

Effects: Systemic

SECTION 8: Exposure controls/personal protection

DNEL - General population - Long term - Dermal
0.7 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
2 mg/kg bw/day
Effects: Systemic

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

DNEL - Workers - Long term - Inhalation
2.5 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
3.5 mg/m³
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
1.2 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
6.81 mg/m³
Effects: Systemic

2-methyl-2H-isothiazol-3-one

DNEL - General population - Long term - Inhalation
0.021 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
0.021 mg/m³
Effects: Local

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

DNEL - General population - Short term - Inhalation
0.043 mg/m³
Effects: Local

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

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

PNECs

Not available.

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

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

Individual protection measures

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

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

Skin protection

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

Recommendations : Wear suitable gloves tested to EN374.

> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm

Not recommended polyvinyl alcohol (PVA) gloves

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

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

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

Filter type (spray application): A P

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

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 :

SECTION 9: Physical and chemical properties

| Ingredient name | °C | °F | Method |
|------------------------------|-------|-------|--------|
| Water | 100 | 212 | |
| Dipropyleneglycolmethylether | 189.6 | 373.3 | EU A.2 |

- 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 |
|------------------------------|-----|-------|---------|
| Dipropyleneglycolmethylether | 207 | 404.6 | EU A.15 |

- Decomposition temperature** : Not available.
- pH** : 8 to 9.5 [Conc. (% w/w): 100%]
- Viscosity** : Not available.
- Solubility(ies)** :
Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** :

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Water | 17.5 | 2.3 | | | | |

- Relative density** : Not available.
- Density** : 1.1 g/cm³
- Vapour density** : Not available.
- Particle characteristics**
- Median particle size** : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

- Explosive properties** : Not available.
- 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.

SECTION 10: Stability and reactivity

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

ammonia, anhydrous

Result

Rat - Inhalation - LC50 Gas.
2000 ppm [4 hours]

Rat - Inhalation - LC50 Gas.
9500 ppm [1 hours]

Rat - Inhalation - LC50 Vapour
4673 mg/m³ [4 hours]

Bronopol

Rat - Dermal - LD50
4750 mg/kg

Rat - Oral - LD50
307 mg/kg

Rat - Inhalation - LC50 Dusts and mists
>0.588 mg/l [4 hours]

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

Rat - Oral - LD50
1020 mg/kg

2-methyl-2H-isothiazol-3-one

Rat - Inhalation - LC50 Dusts and mists
0.11 mg/l [4 hours]

2-Octyl-2H-isothiazol-3-one

Rat - Oral - LD50
550 mg/kg

Rabbit - Dermal - LD50
690 mg/kg

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

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) |
|------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| AQUAPRIMER 2900-06 | N/A | N/A | 620501.4 | 287.4 | N/A |
| 2-Butoxyethanol | 1200 | N/A | N/A | 3 | N/A |
| ammonia, anhydrous | N/A | N/A | 2000 | 4.673 | N/A |
| Bronopol | 307 | 1100 | N/A | N/A | N/A |
| 1,2-benzisothiazol-3(2H)-one | 450 | N/A | N/A | N/A | 0.21 |
| 2-methyl-2H-isothiazol-3-one | 100 | 300 | N/A | N/A | 0.11 |
| 2-Octyl-2H-isothiazol-3-one | 125 | 311 | N/A | N/A | 0.27 |

Skin corrosion/irritation

Product/ingredient name

Diipropylenglycolmethylether

Result

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

2-Butoxyethanol

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

Bronopol

Human - Skin - Moderate irritant

SECTION 11: Toxicological information

Amount/concentration applied: 10 mg

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 80 mg

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

Human - Skin - Mild irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 5 %

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

Serious eye damage/eye irritation

Product/ingredient name

ipropyleneglycolmethylether

Result

Human - Eyes - Mild irritant

Amount/concentration applied: 8 mg

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

2-Butoxyethanol

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

2-Octyl-2H-isothiazol-3-one

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

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

Respiratory corrosion/irritation

Not available.

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

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : May produce an allergic reaction.

Respiratory

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

Germ cell mutagenicity

Not available.

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

Carcinogenicity

Not available.

SECTION 11: Toxicological information

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

Reproductive toxicity

Not available.

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

Specific target organ toxicity (single exposure)

Product/ingredient name

Bronopol

Result

STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the 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 effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

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

- 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.

SECTION 11: Toxicological information

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

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

2-Butoxyethanol

Result

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

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

ammonia, anhydrous

Bronopol

Acute - EC50

Daphnia

1.4 mg/l [48 hours]

Acute - LC50

Fish

41.2 mg/l [96 hours]

Chronic - NOEC

US EPA

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss*

1.94 ppm [49 days]

Effect: Growth

Acute - EC50 - Fresh water

US EPA

Algae - Green algae - *Scenedesmus subspicatus*

0.02 ppm [96 hours]

Acute - LC50 - Fresh water

US EPA

Fish - Bluegill - *Lepomis macrochirus*

SECTION 12: Ecological information

Weight: 0.34 g
11.17 ppm [96 hours]
Effect: Mortality

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]

2-methyl-2H-isothiazol-3-one

Acute - EC50 - Fresh water
US EPA
Daphnia - Water flea - *Daphnia magna*
Age: <24 hours
0.18 ppm [48 hours]
Effect: Intoxication

Acute - LC50 - Fresh water
US EPA
Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*
Weight: 0.73 g
0.07 ppm [96 hours]
Effect: Mortality

2-Octyl-2H-isothiazol-3-one

Acute - EC50 - Fresh water
US EPA
Daphnia - Water flea - *Daphnia magna*
Age: <24 hours
107 ppb [48 hours]
Effect: Intoxication

Acute - LC50 - Fresh water
US EPA
Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*
Weight: 0.7 g
47 ppb [96 hours]
Effect: Mortality

Chronic - NOEC - Fresh water
US EPA
Daphnia - Water flea - *Daphnia magna*
74 ppb [21 days]
Effect: No Effect Coded

Chronic - NOEC
US EPA
Fish - Fathead minnow - *Pimephales promelas*
8.5 ppb [35 days]
Effect: Growth

SECTION 12: Ecological information

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

| Product/ingredient name | Result |
|------------------------------|---------------------|
| 1,2-benzisothiazol-3(2H)-one | EU 24% [28 days] |

Conclusion/Summary [Product] : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| Bronopol | - | - | Readily |
| 1,2-benzisothiazol-3(2H)-one | - | - | Inherent |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--------------------------------|--------------------|-----|-----------|
| Diisopropylenglycolmethylether | 0.004 | - | Low |
| 2-Butoxyethanol | 0.81 | - | Low |
| Bronopol | 0.18 | - | Low |
| 1,2-benzisothiazol-3(2H)-one | - | 3.2 | Low |
| 2-Octyl-2H-isothiazol-3-one | 2.45 | - | Low |

12.4 Mobility in soil

Soil/water partition coefficient

| Product/ingredient name | Value |
|------------------------------|-----------------------------|
| 2-Butoxyethanol | logKoc: 1.8 Koc: 67.3685 |
| Bronopol | logKoc: 1 Koc: 10.3771 |
| 1,2-benzisothiazol-3(2H)-one | logKoc: 1.9 Koc: 73.142 |
| 2-methyl-2H-isothiazol-3-one | logKoc: 1.7 Koc: 54.9187 |
| 2-Octyl-2H-isothiazol-3-one | logKoc: 2.8 Koc: 706.605 |

Results of PMT and vPvM assessment

| Product/ingredient name | PMT | P | M | T | vPvM | vP | vM |
|--------------------------------|-----|----|----|----|------|----|----|
| Diisopropylenglycolmethylether | No | No | No | No | No | No | No |
| 2-Butoxyethanol | No | No | No | No | No | No | No |
| ammonia, anhydrous | No | No | No | No | No | No | No |
| Bronopol | No | No | No | No | No | No | No |
| 1,2-benzisothiazol-3(2H)-one | No | No | No | No | No | No | No |
| 2-methyl-2H-isothiazol-3-one | No | No | No | No | No | No | No |
| 2-Octyl-2H-isothiazol-3-one | 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]

SECTION 12: Ecological information

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|-----|-----|-----|-----|------|-----|-----|
| <input checked="" type="checkbox"/> Dipropyleneglycolmethylether | No | N/A | N/A | No | N/A | N/A | N/A |
| 2-Butoxyethanol | No | N/A | N/A | No | N/A | N/A | N/A |
| ammonia, anhydrous | No | No | No | No | No | No | No |
| Bronopol | No | N/A | N/A | No | N/A | N/A | N/A |
| 1,2-benzisothiazol-3(2H)-one | No | N/A | No | No | No | N/A | No |
| 2-methyl-2H-isothiazol-3-one | No | N/A | N/A | No | N/A | N/A | N/A |
| 2-Octyl-2H-isothiazol-3-one | N/A | N/A | N/A | Yes | N/A | N/A | N/A |

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

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|-----|----|----|----|------|----|----|
| <input checked="" type="checkbox"/> Dipropyleneglycolmethylether | No | No | No | No | No | No | No |
| 2-Butoxyethanol | No | No | No | No | No | No | No |
| ammonia, anhydrous | No | No | No | No | No | No | No |
| Bronopol | No | No | No | No | No | No | No |
| 1,2-benzisothiazol-3(2H)-one | No | No | No | No | No | No | No |
| 2-methyl-2H-isothiazol-3-one | No | No | No | No | No | No | No |
| 2-Octyl-2H-isothiazol-3-one | No | No | No | No | No | No | No |

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

12.6 Endocrine disrupting properties

Not available.

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

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC) : 080112

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 user : **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

| Product/ingredient name | % | Designation [Usage] |
|-------------------------|-----|---------------------|
| AQUAPRIMER 2900-06 | ≥90 | 3 |

Labelling :

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : 3909 - Amino-resins, phenolic resins and polyurethanes.

Total percentage of synthetic polymer microparticles : 1.8%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

(EC) No 273/2004 on drug precursors

Not listed.

(EC) No 111/2005 Trade between the Union and third countries in drug precursors

Not listed.

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

Czech Republic

Storage code : IV

Denmark

Product registration number : 4363205

Fire class : IV-1

MAL-code : 0-1

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

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

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

MAL-code: 0-1

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

- Arm protectors must be worn.

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

- Gas filter mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the

SECTION 15: Regulatory information

operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

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

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

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

*See Regulations.

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

List of undesirable substances : Not listed

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 : Dipropylenglycolmethylether RG 84
2-Butoxyethanol RG 84

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

Germany

Storage class (TRGS 510) : 10

Hazardous incident ordinance

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

Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

| Number [Class] | Description | % |
|----------------|--|-------|
| 5.2.1 | Total dust | 34.9 |
| 5.2.4 [III] | Gaseous inorganic substances | 0.32 |
| 5.2.5 | Organic substances | 2.8 |
| 5.2.5 [I] | Organic substances | 2 |
| 5.2.7.2 | Poorly degradable, easily accumulating and highly toxic organic substances | 0.017 |

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.

SECTION 15: Regulatory information

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
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

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

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

Full text of abbreviated H statements

| | |
|--------|---|
| H221 | Flammable gas. |
| H280 | Contains gas under pressure; may explode if heated. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful 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. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications [CLP/GHS]

SECTION 16: Other information

| | |
|--------------------|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1 | SERIOUS EYE 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 |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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AQUAPRIMER 2900-06

All variants

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.

