

SAFETY DATA SHEET



Date of issue/Date of revision

: 10 July 2024

Version

: 2.01

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

1.1 Product identifier

Product name : PITT-TECH PLUS EP DTM ACRYLIC SEMI-GLOSS NEUTRAL BASE

Product code : 00445816

Other means of identification

Not available.

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

Product use : Professional applications, Used by spraying.

**Use of the substance/
mixture** : Coating.

Uses advised against : Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL
Tweemontstraat 104
B-2100 Deurne
Belgium
Telephone +32-33606311
Fax +32-33606435

**e-mail address of person
responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

Supplier

+31 20 4075210

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

Carc. 1B, H350

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.

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SECTION 2: Hazards identification

2.2 Label elements

| | | |
|--|---|---|
| Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | May cause an allergic skin reaction. May cause cancer. Harmful to aquatic life with long lasting effects. |
| <u>Precautionary statements</u> | | |
| Prevention | : | Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapour. |
| Response | : | IF exposed or concerned: Get medical advice or attention. |
| Storage | : | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P273, P261, P308 + P313, P501 |
| Hazardous ingredients | : | benzophenone 1,2-benzisothiazol-3(2H)-one 2-methylisothiazol-3(2H)-one reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |
| Supplemental label elements | : | Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Restricted to professional users. |

Special packaging requirements

| | | |
|---|---|-----------------|
| Containers to be fitted with child-resistant fastenings | : | Not applicable. |
| Tactile warning of danger | : | Not applicable. |

2.3 Other hazards

| | | |
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| Product meets the criteria for PBT or vPvB | : | 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. |

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % by weight | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|--|---|-------------|--|--|---------|
| Propane-1,2-diol, propoxylated (MW<2000) | CAS: 25322-69-4 | ≥1.0 - ≤5.0 | Acute Tox. 4, H302 | ATE [Oral] = 1000 mg/kg | [1] |
| 2-(2-butoxyethoxy)ethanol | REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 | ≥1.0 - ≤5.0 | Eye Irrit. 2, H319 | - | [1] [2] |
| ammonia, anhydrous | REACH #: 01-2119488876-14 EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5 | <1.0 | 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] |
| benzophenone | REACH #: 01-2119899704-20 EC: 204-337-6 CAS: 119-61-9 Index: 606-153-00-5 | ≤0.30 | Carc. 1B, H350 STOT RE 2, H373 (kidneys, liver) (oral) Aquatic Chronic 2, H411 | - | [1] |
| 3-iodo-2-propynyl butylcarbamate | EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7 | <0.10 | Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Oral] = 1470 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1 | [1] |
| reaction mass of mixed (3,3,4,4,5,5,6,6,7,7, 8,8,8-tridecafluorooctyl) phosphates, ammonium salt | CAS: SUB141402 | <0.10 | Acute Tox. 1, H330 STOT RE 2, H373 (liver) Aquatic Chronic 1, H410 | ATE [Inhalation (dusts and mists)] = 0.047 mg/l M [Chronic] = 10 | [1] |
| 1,2-benzisothiazol-3(2H)-one | EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6 | <0.050 | Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 | ATE [Oral] = 1020 mg/kg ATE [Inhalation (dusts and mists)] = 0.4 mg/l Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1 | [1] |
| 2-methylisothiazol-3(2H)-one | REACH #: 01-2120764690-50 EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9 | <0.010 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 | ATE [Oral] = 235 mg/kg ATE [Dermal] = 242 mg/kg ATE [Inhalation (dusts and mists)] = 0.19 mg/l | [1] |

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SECTION 3: Composition/information on ingredients

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|---|---|---------|---|--|--|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | REACH #: 01-2120764691-48 EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5 | ≤0.0082 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 See Section 16 for the full text of the H statements declared above. | Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1 ATE [Oral] = 53 mg/kg [1] ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C ≥ 0.6% Skin Irrit. 2, H315: 0.06% ≤ C < 0.6% Eye Dam. 1, H318: C ≥ 0.6% Eye Irrit. 2, H319: 0.06% ≤ C < 0.6% Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 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.

Type
[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.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

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SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

| | |
|---------------------------------------|--|
| <u>Potential acute health effects</u> | |
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| <u>Over-exposure signs/symptoms</u> | |
| 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

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|--------------------------------|---|
| 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 oxides sulfur oxides metal oxide/oxides |

5.3 Advice for firefighters

| | |
|--|---|
| Special precautions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

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SECTION 6: Accidental release measures

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities : Store between the following temperatures: 5 to 35°C (41 to 95°F). 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. Store locked up. 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)
See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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).


8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--|--|
|  2-(2-butoxyethoxy)ethanol | EU OEL (Europe, 1/2022). STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. |
| ammonia, anhydrous | EU OEL (Europe, 1/2022). [ammonia, anhydrous] STEL: 36 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 14 mg/m³ 8 hours. TWA: 20 ppm 8 hours. |

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

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|------|-----------------------|-------------------|--------------------|----------|
|  Propane-1,2-diol, propoxylated (MW<2000) | DNEL | Long term Oral | 8.3 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 8.3 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 10 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 10 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 13.9 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 29 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 98 mg/m³ | Workers | Systemic |
| | DNEL | Long term Oral | 6.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 67.5 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 101.2 mg/m³ | Workers | Local |
| 2-(2-butoxyethoxy)ethanol | | | | | |

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SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|------|-----------------------|--------------------|--------------------|----------|
| ammonia, anhydrous | DNEL | Long term Inhalation | 2.8 mg/m³ | General population | Local |
| | DNEL | Short term Oral | 6.8 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 6.8 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 6.8 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 6.8 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 7.2 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 14 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 23.8 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 23.8 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 36 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 47.6 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 47.6 mg/m³ | Workers | Systemic |
| | DNEL | Short term Dermal | 6.8 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 6.8 mg/kg bw/day | General population | Systemic |
| benzophenone | DNEL | Long term Oral | 0.05 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.05 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.1 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.17 mg/m³ | General population | Systemic |
| 3-iodo-2-propynyl butylcarbamate | DNEL | Long term Inhalation | 0.7 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.023 mg/m³ | Workers | Systemic |
| 1,2-benzisothiazol-3(2H)-one | DNEL | Short term Inhalation | 0.07 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 1.16 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.16 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 2 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 0.345 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.966 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.2 mg/m³ | General population | Systemic |
| 2-methylisothiazol-3(2H)-one | DNEL | Long term Inhalation | 6.81 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.021 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 0.021 mg/m³ | Workers | Local |
| | DNEL | Long term Oral | 0.027 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 0.043 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 0.043 mg/m³ | Workers | Local |
| | DNEL | Short term Oral | 0.053 mg/kg bw/day | General population | Systemic |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | DNEL | Long term Inhalation | 0.02 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 0.02 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m³ | Workers | Local |
| | DNEL | Long term Oral | 0.09 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.11 mg/kg bw/day | General population | Systemic |

PNECs

| Product/ingredient name | Type | Compartment Detail | Value | Method Detail |
|---------------------------|------|------------------------|----------------|--------------------------|
| 2-(2-butoxyethoxy)ethanol | - | Fresh water | 1.1 mg/l | Assessment Factors |
| | - | Marine water | 0.11 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 200 mg/l | Assessment Factors |
| | - | Fresh water sediment | 4.4 mg/kg dwt | Equilibrium Partitioning |
| | - | Marine water sediment | 0.44 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 0.32 mg/kg dwt | Equilibrium Partitioning |

8.2 Exposure controls

| | | | |
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SECTION 8: Exposure controls/personal protection

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|---------------------------------------|---|
| Appropriate engineering controls | : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
| <u>Individual protection measures</u> | |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working 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 glasses with side shields. Use eye protection according to EN 166. |
| <u>Skin protection</u> | |
| 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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. |
| Gloves | : polyethylene |
| 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 | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3 |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties






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

9.1 Information on basic physical and chemical properties

| | |
|-------------------|---------------|
| <u>Appearance</u> | |
| Physical state | : Liquid. |
| Colour | : Colourless. |

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SECTION 9: Physical and chemical properties

| Odour | : Characteristic. | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------------|-------------------------|-------------------------|-------------------|---------------------------|-----|-----|-----------|-----|--------|-------|-----|--------|---|------|-----|--|--|--|--|
| Odour threshold | : Not available. | | | | | | | | | | | | | | | | | | | | |
| Melting point/freezing point | :  May start to solidify at the following temperature: 0°C (32°F) This is based on data for the following ingredient: water. Weighted average: -6.5°C (20.3°F) | | | | | | | | | | | | | | | | | | | | |
| Initial boiling point and boiling range | : >37.78°C | | | | | | | | | | | | | | | | | | | | |
| Flammability | : Not available. | | | | | | | | | | | | | | | | | | | | |
| Upper/lower flammability or explosive limits | : Greatest known range: Lower: 0.8% Upper: 9.4% (2-(2-butoxyethoxy)ethanol) | | | | | | | | | | | | | | | | | | | | |
| Flash point | : Closed cup: 95°C | | | | | | | | | | | | | | | | | | | | |
| Auto-ignition temperature | : | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Ingredient name</th><th>°C</th><th>°F</th><th>Method</th></tr><tr><td>2-(2-butoxyethoxy)ethanol</td><td>210</td><td>410</td><td>DIN 51794</td></tr></table> | | Ingredient name | °C | °F | Method | 2-(2-butoxyethoxy)ethanol | 210 | 410 | DIN 51794 | | | | | | | | | | | | |
| Ingredient name | °C | °F | Method | | | | | | | | | | | | | | | | | | |
| 2-(2-butoxyethoxy)ethanol | 210 | 410 | DIN 51794 | | | | | | | | | | | | | | | | | | |
| Decomposition temperature | : Stable under recommended storage and handling conditions (see Section 7). | | | | | | | | | | | | | | | | | | | | |
| pH | : Not available. | | | | | | | | | | | | | | | | | | | | |
| Viscosity | : Kinematic (40°C): >21 mm²/s | | | | | | | | | | | | | | | | | | | | |
| Solubility(ies) | : | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Media</th><th>Result</th></tr><tr><td>cold water</td><td>Partially soluble</td></tr></table> | | Media | Result | cold water | Partially soluble | | | | | | | | | | | | | | | | |
| Media | Result | | | | | | | | | | | | | | | | | | | | |
| cold water | Partially soluble | | | | | | | | | | | | | | | | | | | | |
| Partition coefficient: n-octanol/ water | : Not applicable. | | | | | | | | | | | | | | | | | | | | |
| Vapour pressure | : | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th rowspan="2">Ingredient name</th><th colspan="3">Vapour Pressure at 20°C</th><th colspan="3">Vapour pressure at 50°C</th></tr><tr><th>mm Hg</th><th>kPa</th><th>Method</th><th>mm Hg</th><th>kPa</th><th>Method</th></tr><tr><td> water</td><td>17.5</td><td>2.3</td><td></td><td></td><td></td><td></td></tr></table> | | 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 | | | | |
| 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 | | | | | | | | | | | | | | | | | | | |
| Evaporation rate | : 0.003 (2-(2-butoxyethoxy)ethanol) compared with butyl acetate | | | | | | | | | | | | | | | | | | | | |
| Relative density | :  1.09 | | | | | | | | | | | | | | | | | | | | |
| Vapour density | : Highest known value: 5.6 (Air = 1) (2-(2-butoxyethoxy)ethanol). | | | | | | | | | | | | | | | | | | | | |
| Explosive properties | : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible. | | | | | | | | | | | | | | | | | | | | |
| Oxidising properties | : Product does not present an oxidizing hazard. | | | | | | | | | | | | | | | | | | | | |
| <u>Particle characteristics</u> | | | | | | | | | | | | | | | | | | | | | |
| Median particle size | : Not applicable. | | | | | | | | | | | | | | | | | | | | |
| 9.2 Other information | | | | | | | | | | | | | | | | | | | | | |
| No additional information. | | | | | | | | | | | | | | | | | | | | | |

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. |

| | | | |
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SECTION 10: Stability and reactivity

- 10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.
- 10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:
oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials:
carbon oxides sulfur oxides metal oxide/oxides

SECTION 11: Toxicological information

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

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------------|------------|--------------|----------|
| Propane-1,2-diol, propoxylated (MW<2000) | LD50 Dermal | Rabbit | >10000 mg/kg | - |
| | LD50 Oral | Rat | 1000 mg/kg | - |
| 2-(2-butoxyethoxy)ethanol | LD50 Dermal | Rabbit | 2700 mg/kg | - |
| | LD50 Oral | Rat | 4500 mg/kg | - |
| ammonia, anhydrous | LC50 Inhalation Gas. | Rat | 9500 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 2000 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat | 4673 mg/m³ | 4 hours |
| | LD50 Oral | Rat | 0.35 g/kg | - |
| benzophenone | LD50 Dermal | Rabbit | 3.535 g/kg | - |
| | LD50 Oral | Rat | >10 g/kg | - |
| 3-iodo-2-propynyl butylcarbamate | LC50 Inhalation Dusts and mists | Rat | 0.67 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >2 g/kg | - |
| | LD50 Oral | Rat | 1470 mg/kg | - |
| reaction mass of mixed (3,3,4,4,5,5,6,6,7,7, 8,8,8-tridecafluorooctyl) phosphates, ammonium salt | LC50 Inhalation Dusts and mists | Rat | 0.047 mg/l | 4 hours |
| 1,2-benzisothiazol-3(2H)-one | LC50 Inhalation Dusts and mists | Rat | 0.4 mg/l | 4 hours |
| | LD50 Oral | Rat | 1020 mg/kg | - |
| 2-methylisothiazol-3(2H)-one | LC50 Inhalation Dusts and mists | Rat | 0.19 mg/l | 4 hours |
| | LD50 Dermal | Rat | 242 mg/kg | - |
| | LD50 Oral | Rat - Male | 235 mg/kg | - |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | LD50 Oral | Rat | 53 mg/kg | - |

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

| Route | ATE value |
|----------------------|----------------|
| Oral | 60392.55 mg/kg |
| Inhalation (gases) | 340255.77 ppm |
| Inhalation (vapours) | 795.01 mg/l |

Irritation/Corrosion

| | | | |
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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|----------------------------------|------------------------|---------|-------|----------|-------------|
| 3-iodo-2-propynyl butylcarbamate | Eyes - Severe irritant | Rabbit | - | - | - |

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Eyes : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|------------------------------|-------------------|------------|-------------|
| 4,2-benzisothiazol-3(2H)-one | skin | Guinea pig | Sensitising |

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|----------|-------------------|---------------|
| | | | |

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Eye contact : No specific data.

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

Short term exposure

| | | | |
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SECTION 11: Toxicological information

| | |
|----------------------------------|---|
| 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 | : Not available. |
| General | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : May cause cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |
| Other information | : Not available. |

Sanding and grinding dusts may be harmful if inhaled. Contains isothiazolinones. May cause allergic reaction. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|--------------------------|--------------------------------|----------|
| Propane-1,2-diol, propoxylated (MW<2000) 3-iodo-2-propynyl butylcarbamate 1,2-benzisothiazol-3(2H)-one | Acute LC50 >100 mg/l | Fish | 96 hours |
| | Acute EC50 0.186 mg/l | Daphnia - <i>Daphnia magna</i> | 48 hours |
| | Fresh water | | |
| | Acute LC50 0.067 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.049 mg/l | Fish | 96 hours |
| | Acute EC50 0.11 mg/l | Algae | 72 hours |
| | Acute EC50 2.9 mg/l | Daphnia | 48 hours |
| | Acute LC50 2.15 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.0403 mg/l | Algae | 72 hours |

Conclusion/Summary : There are no data available on the mixture itself.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|----------------------------------|------|---------------------------|------|----------|
| 3-iodo-2-propynyl butylcarbamate | - | 25 % - Inherent - 28 days | - | - |

| | | | |
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SECTION 12: Ecological information

Conclusion/Summary : There are no data available on the mixture itself.

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

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-------|-----------|
| Propane-1,2-diol, propoxylated (MW<2000) | -0.68 to 0.01 | - | Low |
| 2-(2-butoxyethoxy)ethanol | 1 | - | Low |
| benzophenone | 3.18 | 12.02 | Low |
| 1,2-benzisothiazol-3(2H)-one | 0.7 | - | Low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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).

13.1 Waste treatment methods

Product

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

Hazardous waste : Yes.

European waste catalogue (EWC)

| Waste code | Waste designation |
|------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

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.

| | | | |
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SECTION 13: Disposal considerations

| | | | |
|-------------------|--------------------------------|-----------------|--|
| Type of packaging | European waste catalogue (EWC) | | |
| Container | 15 01 06 | mixed packaging | |

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.

14. Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|-----------------|--|-----------------|-----------------|
| 14.1 UN number or ID number | Not regulated. | 9003 | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C (2-(2-butoxyethoxy) ethanol) | - | - |
| 14.3 Transport hazard class(es) | - | 9 | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

Additional information

ADR/RID : None identified.
ADN : The product is only regulated as a dangerous good when transported in tank vessels.
IMDG : None identified.
IATA : None identified.

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 applicable.

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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 : Restricted to professional users.
on the manufacture,
placing on the market
and use of certain
dangerous substances,
mixtures and articles

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Biocidal products regulation : Contains a biocidal product; C(M)IT/MIT (3:1)

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

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]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

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. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |

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SECTION 16: Other information

| | |
|--|---|
| H319 H330 H331 H350 H372 H373 H400 H410 H411 H412 EUH071 | Causes serious eye irritation. Fatal if inhaled. Toxic if inhaled. May cause cancer. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Corrosive to the respiratory tract. |
|--|---|

Full text of classifications [CLP/GHS]

| | |
|---|--|
| Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Carc. 1B Eye Dam. 1 Eye Irrit. 2 Flam. Gas 2 Press. Gas (Comp.) Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 1 STOT RE 2 | ACUTE TOXICITY - Category 1 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 CARCINOGENICITY - Category 1B SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE GASES - Category 2 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
|---|--|

History

| | |
|---------------------------------|-------------------|
| Date of issue/ Date of revision | : 10 July 2024 |
| Date of previous issue | : 26 October 2023 |
| Prepared by | : EHS |
| Version | : 2.01 |

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