SAFETY DATA SHEET



UVILUX SEALER 1453-02 - TS 20408 LIGHT BLUE

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

1.1 Product identifier

: UVILUX SEALER 1453-02 - TS 20408 LIGHT BLUE **Product name**

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

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

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

: In an emergency, call 112 Telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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 : H315 - Causes skin irritation.

> H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

: P280 - Wear protective gloves. Wear eye or face protection. **Prevention**

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

P264 - Wash thoroughly after handling.

: P391 - Collect spillage. Response

Storage : Not applicable.

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SECTION 2: Hazards identification

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: Contains: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid; 3-hydroxy-2'-methoxy-2-naphthanilide; Propylidynetrimethanol, ethoxylated, esters with acrylic acid and (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Supplemental label elements

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

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

2.3 Other hazards

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

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	REACH #: 01-2119490020-53 EC: 500-130-2 CAS: 55818-57-0	≥10 - ≤25	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
3-hydroxy-2'-methoxy- 2-naphthanilide	REACH #: 01-2119943385-33 EC: 205-206-6 CAS: 135-62-6	≥10 - ≤25	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5	≤10	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
Ethoxylated acrylated ester	-	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	REACH #: 01-2119484613-34 EC: 256-032-2 CAS: 42978-66-5 Index: 607-249-00-X	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411	STOT SE 3, H335: C ≥ 10%	[1]
2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]]	REACH #: 01-2119961351-42 CAS: 111497-86-0	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]

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SECTION 3: Composition/information on ingredients ester, reaction products Aguatic Chronic 2, with diethylamine H411 Fatty acids, C18-unsatd., CAS: 216689-76-8 ≤3 [1] Skin Sens. 1B, H317 dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid Oligotriacrylate REACH #: ≤0.3 Eye Irrit. 2, H319 [1] 01-2119487948-12 Skin Sens. 1, H317 EC: 500-114-5 CAS: 52408-84-1 Fatty acids, C14-18 and REACH #: ≤0.3 Skin Irrit. 2, H315 [1] 01-2119976378-19 C16-18-unsatd., maleated Skin Sens. 1, H317 EC: 288-306-2 CAS: 85711-46-2 4,4'-Isopropylidenediphenol, REACH #: Eye Irrit. 2, H319 [1] ≤0.3 oligomeric reaction 01-2119490020-53 Skin Sens. 1, H317 products with 1-chloro-EC: 500-130-2 2,3-epoxypropane, esters CAS: 55818-57-0 with acrylic acid Diphenyl < 0.3 Skin Sens. 1B, H317 [1] [3] REACH #: (2,4,6-trimethylbenzoyl) 01-2119972295-29 Repr. 1B, H360Fd phosphine oxide EC: 278-355-8 CAS: 75980-60-8 Index: 015-203-00-X REACH #: ≤0.3 Acute Tox. 4, H302 ATE [Oral] = 1200 2-Butoxyethanol [1] [2] Acute Tox. 3, H331 01-2119475108-36 mg/kg EC: 203-905-0 Skin Irrit. 2, H315 ATE [Inhalation CAS: 111-76-2 Eye Irrit. 2, H319 (vapours)] = 3 mg/l Index: 603-014-00-0 copper bis REACH #: < 0.1 Acute Tox. 2, H330 ATE [Inhalation [1] (dimethyldithiocarbamate) 01-2120770993-40 Aquatic Acute 1, H400 (dusts and mists)]

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.

≤0.01

Acute Tox. 4. H302

Skin Corr. 1B. H314

Resp. Sens. 1, H334

Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system)

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

Eye Dam. 1, H318

(inhalation) EUH071

above.

= 0.12 mg/l

C ≥ 0.001%

mg/kg

M [Acute] = 10

ATE [Oral] = 400

Skin Sens. 1, H317:

[1]

Type

Maleic anhydride

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance with carcinogenic, mutagenic or reproductive toxicity properties

EC: 205-287-8

CAS: 137-29-1

EC: 203-571-6

CAS: 108-31-6

01-2119472428-31

Index: 607-096-00-9

REACH #:

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 μm not bound within a matrix.

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eve contact

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

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 : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

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

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

media

: None known.

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

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 toxic 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

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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

6.2 Environmental precautions

: Kvoid 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. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill

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

Large spill

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

6.4 Reference to other sections

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

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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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
₽ 2	200 tonnes	500 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2 -Butoxyethanol	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. PEAK 30 minutes: 40 ppm 4 times per shift. PEAK 30 minutes: 200 mg/m³ 4 times per shift.
copper bis(dimethyldithiocarbamate)	Regulation on Limit Values - MAC (Austria, 12/2024) [Kupfer und seine Verbindungen] TWA 8 hours: 1 mg/m³ (measured as Cu). Form: Inhalable fraction. PEAK 15 minutes: 4 mg/m³ (measured as Cu), 4 times per shift. Form: Inhalable fraction. Regulation on Limit Values - MAC (Austria, 12/2024) [Kupfer und seine Verbindungen als Rauch] TWA 8 hours: 0.1 mg/m³ (measured as Cu). Form: respirable fume. PEAK 15 minutes: 0.4 mg/m³ (measured as Cu), 4 times per shift.

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Form: respirable fume. Maleic anhydride

Regulation on Limit Values - MAC (Austria, 12/2024) Inhalation

sensitiser, Skin sensitiser. TWA 8 hours: 0.1 ppm. TWA 8 hours: 0.4 mg/m³.

CEIL 5 minutes: 0.2 ppm 8 times per shift. CEIL 5 minutes: 0.8 mg/m³ 8 times per shift.

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

> TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. Limit values (Belgium, 12/2023)

TWA 8 hours: 0.0025 ppm. Form: vapour and aerosol. TWA 8 hours: 0.01 mg/m³. Form: vapour and aerosol.

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

through skin. Limit value 8 hours: 98 mg/m³. Limit value 15 minutes: 246 mg/m³.

Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.

Ministry of Labour and Social Policy and the Ministry of copper bis(dimethyldithiocarbamate)

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Copper oxides and inorganic compounds]

Limit value 8 hours: 1 mg/m³ (as copper).

Maleic anhydride Ministry of Labour and Social Policy and the Ministry of

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

Limit value 8 hours: 1 mg/m³.

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

(Croatia, 12/2023) Absorbed through skin.

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

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

(Croatia, 12/2023) Skin sensitiser, Inhalation sensitiser.

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STELV 15 minutes: 0.2 ppm. ELV 8 hours: 0.41 mg/m³. STELV 15 minutes: 0.8 mg/m3.

ELV 8 hours: 0.1 ppm.

Department of labour inspection (Cyprus, 7/2021) Absorbed 2-Butoxyethanol

through skin.

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

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

> TWA 8 hours: 98 ma/m3. TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m3. STEL 15 minutes: 40.7 ppm.

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

Republic, 12/2023) Sensitiser. TWA 8 hours: 1 mg/m³. STEL 15 minutes: 2 mg/m³.

Maleic anhydride

Maleic anhydride

2-Butoxyethanol

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SECTION 8: Exposure controls/personal protection 2-Butoxyethanol Working Environment Authority (Denmark, 12/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm. Maleic anhydride Working Environment Authority (Denmark, 12/2024) TWA 8 hours: 0.1 ppm. TWA 8 hours: 0.4 mg/m³. STEL 15 minutes: 0.8 mg/m³. STEL 15 minutes: 0.2 ppm. 2-Butoxyethanol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm. copper bis(dimethyldithiocarbamate) Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [vask ja anorgaanilised ühendid] TWA 8 hours: 1 mg/m³ (calculated as Cu). Form: Total dust. TWA 8 hours: 0.2 mg/m³ (calculated as Cu). Form: Respirable Occupational exposure limits, Regulation No. 293 (Estonia, Maleic anhydride 4/2024) Sensitiser. TWA 8 hours: 1.2 mg/m³. TWA 8 hours: 0.3 ppm. STEL 15 minutes: 2.5 mg/m³. STEL 15 minutes: 0.6 ppm. 2-Butoxyethanol EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. 2-Butoxyethanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m³. copper bis(dimethyldithiocarbamate) Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Kupari ja sen yhdisteet] TWA 8 hours: 0.02 mg/m³ (calculated as Cu). Form: Respirable fraction. Maleic anhydride Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 0.1 ppm. TWA 8 hours: 0.41 mg/m³. CEIL: 0.2 ppm. CEIL: 0.81 mg/m³. 2-Butoxyethanol Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values

STEL 15 minutes: 1 mg/m³. Notes: Permissible limit values (circulars)

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

Ministry of Labor (France, 6/2024) Sensitiser.

Maleic anhydride

-methyl-1,2-ethanediyl)bis[oxy(methyl-

2,1-ethanediyl)] diacrylate

2-Butoxyethanol

Maleic anhydride

DFG MAC-values list (Germany, 7/2024) Skin sensitiser.

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

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

DFG MAC-values list (Germany, 7/2024) 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].

copper bis(dimethyldithiocarbamate)

DFG MAC-values list (Germany, 7/2024) [Copper and its inorganic compounds] Develop C.

PEAK 15 minutes: 0.02 mg/m³ 4 times per shift [Interval: 1 hour].

Form: respirable fraction.

TWA 8 hours: 0.01 mg/m³. Form: respirable fraction.

TRGS 900 OEL (Germany, 6/2024) Inhalation sensitiser, Skin

TWA 8 hours: 0.081 mg/m³. CEIL: 0.2025 mg/m³. TWA 8 hours: 0.02 ppm.

CEIL: 0.05 ppm.

PEAK 15 minutes: 0.081 mg/m³. PEAK 15 minutes: 0.02 ppm.

DFG MAC-values list (Germany, 7/2024) Develop C. Inhalation

sensitiser, Skin sensitiser. TWA 8 hours: 0.02 ppm. CEIL: 0.05 ml/m3.

TWA 8 hours: 0.081 mg/m³.

CEIL: 0.2 mg/m³.

PEAK 15 minutes: 0.081 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 0.02 ppm 4 times per shift [Interval: 1 hour].

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.

Presidential Decree 307/1986: Occupational exposure limit Maleic anhydride values (Greece, 8/2024)

TWA 8 hours: 0.25 ppm. TWA 8 hours: 1 mg/m³.

2-Butoxyethanol

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through

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

copper bis(dimethyldithiocarbamate)

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [RÉZ és vegyületei]

TWA 8 hours: 0.1 mg/m³ (as Cu). PEAK 15 minutes: 0.2 mg/m³ (as Cu).

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser.

TWA 8 hours: 0.08 mg/m³. PEAK 15 minutes: 0.08 mg/m³. PEAK 15 minutes: 0.2 ppm. TWA 8 hours: 0.2 ppm.

Maleic anhydride

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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.

Maleic anhydride

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

Sensitiser.

TWA 8 hours: 0.4 mg/m³. TWA 8 hours: 0.1 ppm.

2-Butoxyethanol

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

derived Occupational Exposure Limit Values

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

Maleic anhydride

NAOSH (Ireland, 4/2024) Sensitiser. Notes: Advisory Occupational

Exposure Limit Values (OELVs)

OELV 8 hours: 0.01 ppm. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour

phases..

2-Butoxyethanol

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.

2-Butoxyethanol

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

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

Maleic anhydride

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

TWA 8 hours: 1 mg/m³.

Ethene, homopolymer

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

TWA 8 hours: 10 mg/m³.

2-Butoxyethanol

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

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

copper bis(dimethyldithiocarbamate)

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

ir jo neorganiniai junginiai]

TWA 8 hours: 0.2 mg/m³ (as Cu). Form: Respirable fraction. TWA 8 hours: 1 mg/m³ (as Cu). Form: Inhalable fraction. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Sensitiser.

TWA 8 hours: 1.2 mg/m³. TWA 8 hours: 0.3 ppm. STEL 15 minutes: 2.5 mg/m³. STEL 15 minutes: 0.6 ppm.

Maleic anhydride

2-Butoxyethanol

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin.

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

STEL 15 minutes: 246 mg/m³.

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

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

2-Butoxyethanol

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

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

copper bis(dimethyldithiocarbamate)

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [koper en anorganische

koperverbindingen]

TWA 8 hours: 0.1 mg/m³. Form: Inhalable fraction.

FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³.

FOR-2011-12-06-1358 (Norway, 5/2024) Sensitiser.

TWA 8 hours: 0.2 ppm. TWA 8 hours: 0.8 mg/m³.

2-Butoxyethanol

2-Butoxyethanol

Maleic anhydride

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.

copper bis(dimethyldithiocarbamate)

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) [copper and its inorganic compounds]

TWA 8 hours: 0.2 mg/m³ (calculated as Cu).

Maleic anhydride

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: 0.5 mg/m³. STEL 15 minutes: 1 mg/m³.

2-Butoxyethanol

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.

Maleic anhydride

2-Butoxyethanol

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

TWA 8 hours: 0.01 mg/m³. Form: Inhalable fraction and vapor. **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.

Maleic anhydride

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

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VLA 8 hours: 1 mg/m³. VLA 8 hours: 0.25 ppm.

Short term 15 minutes: 3 mg/m³.

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2-Butoxyethanol

Short term 15 minutes: 0.75 ppm.

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.

copper bis(dimethyldithiocarbamate)

Government regulation SR c. 355/2006 (Slovakia, 6/2024) [meď a jej anorganické zlúčeniny] Inhalation sensitiser.

TWA 8 hours: 1 mg/m³ (Copper and its inorganic compounds, as

Cu). Form: Inhalable fraction.

TWA 8 hours: 0.2 mg/m³ (Copper and its inorganic compounds,

as Cu). Form: respirable fraction and fumes.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

Sensitiser, Inhalation sensitiser. TWA 8 hours: 0.41 mg/m³. TWA 8 hours: 0.1 ppm.

2-Butoxyethanol

Maleic anhydride

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

Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm.

KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Maleic anhydride

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

TWA 8 hours: 0.41 mg/m³. TWA 8 hours: 0.1 ppm.

KTV 15 minutes: 0.41 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 0.1 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

2-Butoxyethanol

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

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 245 mg/m³. STEL 15 minutes: 50 ppm.

copper bis(dimethyldithiocarbamate)

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

TWA 8 hours: 0.01 mg/m³ (as Cu). Form: Respirable fraction. National institute of occupational safety and health (Spain, 1/2024) Inhalation sensitiser, Skin sensitiser.

TWA 8 hours: 0.1 ppm. TWA 8 hours: 0.4 mg/m³.

2-Butoxyethanol

Maleic anhydride

Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin.

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

copper bis(dimethyldithiocarbamate)

Work environment authority Regulation 2018:1 (Sweden, 11/2022) [copper and inorganic compounds]

TWA 8 hours: 0.01 mg/m³ (as Cu). Form: respirable fraction. Work environment authority Regulation 2018:1 (Sweden, 11/2022) Sensitiser.

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TWA 8 hours: 0.05 ppm. TWA 8 hours: 0.2 mg/m³. STEL 15 minutes: 0.1 ppm. STEL 15 minutes: 0.4 mg/m³.

Maleic anhydride

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2-Butoxyethanol	SUVA (Switzerland, 1/2025) 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.
copper bis(dimethyldithiocarbamate)	SUVA (Switzerland, 1/2025) [Kupfer und seine anorganischen
	Verbindungen]
	TWA 8 hours: 0.1 mg/m³ (As Cu calculated). Form: Inhalable
	fraction.
	STEL 15 minutes: 0.2 mg/m³ (As Cu calculated). Form: Inhalable
	fraction.
Maleic anhydride	SUVA (Switzerland, 1/2025) Sensitiser.
	TWA 8 hours: 0.1 ppm. Form: vapour and aerosols.
	TWA 8 hours: 0.4 mg/m³. Form: vapour and aerosols.
	STEL 15 minutes: 0.1 ppm. Form: vapour and aerosols.
	STEL 15 minutes: 0.4 mg/m³. Form: vapour and aerosols.
2-Butoxyethanol	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/m ³ .
copper bis(dimethyldithiocarbamate)	EH40/2005 WELs (United Kingdom (UK), 1/2020) [Copper and
	compounds]
	STEL 15 minutes: 2 mg/m³ (as Cu). Form: Dusts and Mists.
	TWA 8 hours: 1 mg/m³ (as Cu). Form: Dusts and Mists.
Maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020) Inhalation
,	sensitiser.
	STEL 15 minutes: 3 mg/m³.
	TWA 8 hours: 1 mg/m³.
	I IVVA 6 DOURS I DO/DE

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	
2 -Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2 -Butoxyethanol	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).

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2-Butoxyethanol

DFG BEI-values list (Germany, 7/2024) 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, 10/2024)

NAOSH BGVs (Ireland, 1/2011)

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.

copper bis(dimethyldithiocarbamate)

DFG BEI-values list (Germany, 7/2024) [Copper and its inorganic compounds]

BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the "Occupational medicine and toxicology Justifications for BAT values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified.

BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of

No exposure indices known.

No exposure indices known.

No exposure indices known.

2-Butoxyethanol

No exposure indices known.

2-Butoxyethanol

2-Butoxyethanol

Portuguese Institute of Quality (Portugal, 11/2014)

shift - As soon as possible after exposure ceases.

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

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

BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.

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

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

SUVA (Switzerland, 1/2025)

BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

EH40/2005 BMGVs (United Kingdom (UK), 1/2020)

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

2-Butoxyethanol

No exposure indices known.

2-Butoxyethanol

2-Butoxyethanol

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procedures

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

DNELs/DMELs

Product/ingredient name

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-

2,3-epoxypropane, esters with acrylic acid

titanium dioxide

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid

Oligotriacrylate

Fatty acids, C14-18 and C16-18-unsatd., maleated

Result

DNEL - Workers - Long term - Inhalation

1.17 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

33 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

28 µg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

170 ua/m³ Effects: Local

DNEL - Workers - Long term - Dermal

10.5 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

37 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

1.7 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.35 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

0.33 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.18 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

2.1 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

7.4 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

1.5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

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1.5 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

3 mg/kg bw/day Effects: Systemic

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-

2,3-epoxypropane, esters with acrylic acid

DNEL - Workers - Long term - Inhalation

1.17 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

33 mg/kg bw/day Effects: Systemic

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

2-Butoxyethanol

DNEL - General population - Long term - Oral

83.3 µg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

83.3 µg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

0.145 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

0.233 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

0.822 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

6.3 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

26.7 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

59 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

98 ma/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

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426 mg/m³
<u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation

1091 mg/m³ Effects: Systemic

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Maleic anhydride

DNEL - General population - Long term - Inhalation

0.05 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

0.06 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

0.08 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

0.081 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

0.081 mg/m³ Effects: Systemic

DNEL - General population - Short term - Oral

0.1 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Dermal

0.1 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

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

DNEL - Workers - Short term - Dermal

0.2 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

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

DNEL - Workers - Short term - Inhalation

0.2 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

0.2 mg/m³

Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

: Sood 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.

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Eve/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: chemical splash goggles.

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.

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

1 - 4 hours (breakthrough time): 4H / Silver Shield® 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:

Filter type (spray application):

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 Blue. **Odour** : Slight

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

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	>120	>248	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	>391	>735.8	OECD 103

Flammability : Not available.

Lower and upper explosion Lower: Not applicable.

Upper: Not applicable. limit

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

Auto-ignition temperature

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Ingredient name	°C	°F	Method
thene, homopolymer	330 to 410	626 to 770	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	465	869	EU A.15

Decomposition temperature : Not available. pН : Not applicable. Not available. **Viscosity**

Solubility(ies)

Not available.

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

water

Vapour pressure

	Vapour Pressure at 20°C		Va	re at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Propenoic acid, 1,1'-[(1-methyl- 1,2-ethanediyl)bis[oxy(methyl- 2,1-ethanediyl)]] ester, reaction products with diethylamine	0.0001	0.000013				
(1-methyl-1,2-ethanediyl)bis[oxy (methyl-2,1-ethanediyl)] diacrylate	0.00003	0.000004	EU A.4			

: Not available. **Relative density** : 1.4 g/cm³ **Density** Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

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

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

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

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SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name Result

Propylidynetrimethanol, ethoxylated, esters Rabbit - Dermal - LD50

with acrylic acid >13 g/kg

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-Rat - Oral - LD50

2,1-ethanediyl)] diacrylate 6200 mg/kg

Toxic effects: Eye - Ptosis Lung, Thorax, or Respiration -

Respiratory depression Other - Hair

copper bis(dimethyldithiocarbamate) Rat - Oral - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>2000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

0.12 mg/l [4 hours]

Maleic anhydride Rat - Oral - LD50

400 mg/kg

Rabbit - Dermal - LD50

2620 mg/kg

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
VILUX SEALER 1453-02	N/A	N/A	N/A	2174.0	N/A
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	6200	N/A	N/A	N/A	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
copper bis(dimethyldithiocarbamate)	N/A	N/A	N/A	N/A	0.12
Maleic anhydride	400	2620	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name Result

tifanium dioxide Human - Skin - Mild irritant

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

Propylidynetrimethanol, ethoxylated, esters Rabbit - Skin - Moderate irritant

with acrylic acid Amount/concentration applied: 500 mg

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-Rabbit - Skin - Moderate irritant

2,1-ethanediyl)] diacrylate Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant 2-Butoxyethanol

Amount/concentration applied: 500 mg

Conclusion/Summary [Product]: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

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ropylidynetrimethanol, ethoxylated, esters

with acrylic acid

Rabbit - Eyes - Moderate irritant
Amount/concentration applied: 100 mg

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-

2,1-ethanediyl)] diacrylate

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 uL

2-Butoxyethanol Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 mg

Rabbit - Eyes - Severe irritant

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Maleic anhydride Rabbit - Eyes - Severe irritant

Amount/concentration applied: 1 %

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product]: Not available.

Respiratory

Conclusion/Summary [Product]: Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

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

Not available.

Conclusion/Summary [Product]: Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

Result

-methyl-1,2-ethanediyl)bis[oxy(methyl-

STOT SE 3, H335 (Respiratory tract irritation)

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2,1-ethanediyl)] diacrylate

Specific target organ toxicity (repeated exposure)

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SECTION 11: Toxicological information

Product/ingredient name

Maleic anhydride

STOT RE 1, H372 (respiratory system) (inhalation)

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

: Causes serious eye irritation. **Eye contact**

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

: No known significant effects or critical hazards. Ingestion Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering

redness

Inhalation : No specific data.

Skin contact Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

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

to very low levels.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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

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.

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12.1 Toxicity

Product/ingredient name

titanium dioxide

Result

Acute - LC50 - Marine water

Fish - Mummichog - Fundulus heteroclitus

>1000000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate

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

2-Butoxyethanol Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

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

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

800000 µg/l [48 hours] Effect: Mortality

copper bis(dimethyldithiocarbamate) Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

Size: 38 to 64 mm; Weight: 1 to 2 g

71 µg/l [96 hours] Effect: Mortality

Maleic anhydride Acute - LC50 - Fresh water

Fish - Western mosquitofish - Gambusia affinis - Adult

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230000 µg/l [96 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product]: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ropylidynetrimethanol, ethoxylated, esters with	-	-	Readily
acrylic acid			

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
 4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, esters with acrylic acid 	1.6 to 3	-	Low
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89	-	Low
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	2	-	Low
Oligotriacrylate	2.52	-	Low

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4,4'-Isopropylidenediphenol,	1.6 to 3	-	Low
oligomeric reaction products			
with 1-chloro-			
2,3-epoxypropane, esters			
with acrylic acid			
Diphenyl	-	53 to 72	Low
(2,4,6-trimethylbenzoyl)			
phosphine oxide			
2-Butoxyethanol	0.81	-	Low
Maleic anhydride	-2.78	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
3-hydroxy-2'-methoxy-2-naphthanilide	3	984.837
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-	2.9	803.136
2,1-ethanediyl)] diacrylate		
Diphenyl(2,4,6-trimethylbenzoyl)	2.8	630.017
phosphine oxide		
2-Butoxyethanol	1.8	67.3685
copper bis(dimethyldithiocarbamate)	1.8	59.2181
Maleic anhydride	1.1	11.4841

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	Т	vPvM	vP	vM	
4.4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	No	No	No	No	No	No	No	
3-hydroxy-2'-methoxy- 2-naphthanilide	No	No	No	No	No	No	No	
titanium dioxide	No	No	No	No	No	No	No	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	No	No	No	No	No	No	No	
Ethoxylated acrylated ester	No	No	No	No	No	No	No	
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	No	No	No	No	No	No	No	
2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester, reaction products with diethylamine	No	No	No	No	No	No	No	
Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid	No	No	No	No	No	No	No	
Oligotriacrylate	No	No	No	No	No	No	No	
Fatty acids, C14-18 and C16-18-unsatd., maleated	No	No	No	No	No	No	No	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	No	No	No	No	No	No	No	
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	No	No	No	No	No	No	No	
2-Butoxyethanol	No	No	No	No	No	No	No	
copper bis	No	No	No	No	No	No	No	

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(dimethyldithiocarbamate)							
Maleic anhydride	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]

Product/ingredient name	PBT	P	В	Т	vPvB	vP	vB
4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	No	N/A	N/A	No	N/A	N/A	N/A
3-hydroxy-2'-methoxy- 2-naphthanilide	No	N/A	N/A	No	N/A	N/A	N/A
titanium dioxide	No	No	No	No	No	No	No
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	No	N/A	N/A	No	N/A	N/A	N/A
Ethoxylated acrylated ester	No	N/A	N/A	No	N/A	N/A	N/A
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	No	N/A	N/A	No	N/A	N/A	N/A
2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester, reaction products with diethylamine	No	N/A	N/A	No	N/A	N/A	N/A
Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid	No	N/A	N/A	No	N/A	N/A	N/A
Oligotriacrylate	No	N/A	N/A	No	N/A	N/A	N/A
Fatty acids, C14-18 and C16-18-unsatd., maleated	No	N/A	N/A	No	N/A	N/A	N/A
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	No	N/A	N/A	No	N/A	N/A	N/A
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	No	N/A	No	Yes	No	N/A	No
2-Butoxyethanol	No	N/A	N/A	No	N/A	N/A	N/A
copper bis (dimethyldithiocarbamate)	No	N/A	N/A	No	N/A	N/A	N/A
Maleic anhydride	N/A	N/A	N/A	Yes	N/A	N/A	N/A

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

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	No	No	No	No	No	No	No	
3-hydroxy-2'-methoxy- 2-naphthanilide	No	No	No	No	No	No	No	
titanium dioxide	No	No	No	No	No	No	No	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	No	No	No	No	No	No	No	

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Ethoxylated acrylated ester	No	No	No	No	No	No	No
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	No	No	No	No	No	No	No
2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester, reaction products with diethylamine	No	No	No	No	No	No	No
Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid	No	No	No	No	No	No	No
Oligotriacrylate	No	No	No	No	No	No	No
Fatty acids, C14-18 and C16-18-unsatd., maleated	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	No	No	No	No	No	No	No
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
copper bis (dimethyldithiocarbamate)	No	No	No	No	No	No	No
Maleic anhydride	No	No	No	No	No	No	No

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

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

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

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

European waste catalogue (EWC)

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

: 080111*

Packaging

Methods of disposal

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

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SECTION 13: Disposal considerations

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	№ N3082	☑ N3082	☑ N3082	☑ N3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)			
14.3 Transport hazard class(es)				
14.4 Packing group	III.	₩	III	III
14.5 Environmental hazards	Y es.	₩es.	₩es.	₩es.

Additional information

ADR/RID

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Tunnel code (-)

ADN

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IMDG

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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

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Intrinsic property	Ingredient name		Reference number	Date of revision
voxic to reproduction	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Candidate	-	6/15/2023

<u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</u>

Product/ingredient name	%	Designation [Usage]
VILUX SEALER 1453-02	≥90	3

Labelling :

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

₹2

National regulations

Austria

Limitation of the use of : Permitted.

organic solvents

Belgium

Czech Republic

Storage code : IV

Denmark

Fire class : \overline{W} -1 Executive Order No. 1795/2015

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

MAL-code : 0-5

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.

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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: 0-5

Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Protective clothing must be worn.

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

- Air-supplied full mask and protective clothing must be worn.

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

- Gas filter mask and protective clothing must be worn.

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

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

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

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

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

*See Regulations.

Restrictions on use

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

List of undesirable substances

: Not listed

Carcinogenic waste

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

Finland France

Social Security Code, Articles L 461-1 to L 461-7 1-methyl-1,2-ethanediyl)bis[oxy(methyl-**RG 84**

2,1-ethanediyl)] diacrylate

2-Butoxyethanol **RG 84** Maleic anhydride **RG 66**

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Reinforced medical surveillance

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

Germany

Storage class (TRGS 510) : 10 **Hazardous incident ordinance**

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
2	1.3.2

Hazard class for water ÷ 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5 .2.1	Total dust	60.2
5.2.2 [III]	Dusty inorganic substances	0.013
5.2.5	Organic substances	39.6
5.2.5 [I]	Organic substances	0.32
5.2.7.1.3	Reproductive toxic substances	0.2
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

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen		Reproductive toxicity - Fertility		Harmful via breastfeeding
difenyl (2,4,6-trimethylbenzoyl) fosfine oxide	-	-	Fertility 1B	Development 2	-

Water Discharge Policy (ABM)

: **Z**(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

Norway

Sweden

Switzerland

VOC content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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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 Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

Full text of abbreviated H statements

⊮ 302	Harmful if swallowed.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Cute 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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Resp. Sens. 1	RESPIRATORY SENSITISATION - 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
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Notice to reader

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

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