

# SAFETY DATA SHEET



TEKNOCOAT PRIMER 1604-20

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

### 1.1 Product identifier

**Product name** : TEKNOCOAT PRIMER 1604-20

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

**Product use** : Paint.

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

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

**e-mail address of person responsible for this SDS** : Prod-safe@teknos.com

#### National contact

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

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : In an emergency, call 112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 3, H226

Eye Dam. 1, H318

STOT SE 3, H336

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** : Danger

**Hazard statements** : H226 - Flammable liquid and vapour.  
H318 - Causes serious eye damage.  
H336 - May cause drowsiness or dizziness.

#### Precautionary statements

**Prevention** : P280 - Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response** : P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

## SECTION 2: Hazards identification

- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients** : Contains: n-Butyl acetate and Butan-1-ol
- Supplemental label elements** : Contains Formaldehyde. May produce an allergic reaction.  
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** :

### 2.3 Other hazards

- Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤10	Carc. 2, H351 (inhalation)	-	[1] [*]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≤10	Aquatic Chronic 4, H413	-	[1]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≤3	Aquatic Chronic 4, H413	-	[1]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm	[1] [2]

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## SECTION 3: Composition/information on ingredients

			Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335  <b>See Section 16 for the full text of the H statements declared above.</b>	Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: 5% ≤ C < 25% Eye Dam. 1, H318: C ≥ 25% Eye Irrit. 2, H319: 5% ≤ C < 25% Skin Sens. 1, H317: C ≥ 0.2% STOT SE 3, H335: C ≥ 5%	
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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.

## SECTION 4: First aid measures

**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.

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

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

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

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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

## SECTION 7: Handling and storage

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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.

### Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

**Recommendations** : Not available.

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

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	<b>Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)]</b> CEIL: 480 mg/m <sup>3</sup> 15 minutes. CEIL: 100 ppm 15 minutes. TWA: 241 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
Butan-1-ol	<b>Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol (all isomers except 2-methyl-2-propanol)]</b> PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 150 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. PEAK: 600 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
Ethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 4/2021).</b> TWA: 200 ppm 8 hours. TWA: 734 mg/m <sup>3</sup> 8 hours. PEAK: 1468 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. PEAK: 400 ppm, 4 times per shift, 15 minutes.
Formaldehyde	<b>Regulation on Limit Values - MAC (Austria, 4/2021). Skin sensitiser.</b> TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m <sup>3</sup> 8 hours. CEIL: 0.6 ppm 15 minutes. CEIL: 0.74 mg/m <sup>3</sup> 15 minutes.
n-Butyl acetate	<b>Limit values (Belgium, 5/2021). [butyl acetate, all isomers]</b> STEL: 712 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
Butan-1-ol	<b>Limit values (Belgium, 5/2021). Absorbed through skin.</b> TWA: 20 ppm 8 hours. TWA: 62 mg/m <sup>3</sup> 8 hours.
Ethyl acetate	<b>Limit values (Belgium, 5/2021).</b> TWA: 200 ppm 8 hours. TWA: 734 mg/m <sup>3</sup> 8 hours. STEL: 1468 mg/m <sup>3</sup> 15 minutes.

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Formaldehyde	<p>STEL: 400 ppm 15 minutes.  <b>Limit values (Belgium, 5/2021).</b>                      Limit value - M: 0.3 ppm                      Limit value - M: 0.38 mg/m<sup>3</sup></p>
n-Butyl acetate	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</b>                      Limit value 8 hours: 241 mg/m<sup>3</sup> 8 hours.                      Limit value 15 min: 723 mg/m<sup>3</sup> 15 minutes.                      Limit value 15 min: 150 ppm 15 minutes.                      Limit value 8 hours: 50 ppm 8 hours.</p>
Butan-1-ol	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</b>                      Limit value 8 hours: 100 mg/m<sup>3</sup> 8 hours.                      Limit value 15 min: 150 mg/m<sup>3</sup> 15 minutes.</p>
Ethyl acetate	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</b>                      Limit value 8 hours: 734 mg/m<sup>3</sup> 8 hours.                      Limit value 15 min: 400 ppm 15 minutes.                      Limit value 15 min: 1468 mg/m<sup>3</sup> 15 minutes.                      Limit value 8 hours: 200 ppm 8 hours.</p>
Formaldehyde	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003. (Bulgaria, 6/2021). Skin sensitiser.</b>                      Limit value 15 min: 0.5 ppm 15 minutes. Form: For the healthcare, funeral and embalming sectors                      Limit value 8 hours: 0.62 mg/m<sup>3</sup> 8 hours. Form: For the healthcare, funeral and embalming sectors                      Limit value 15 min: 0.74 mg/m<sup>3</sup> 15 minutes.                      Limit value 8 hours: 0.37 mg/m<sup>3</sup> 8 hours.                      Limit value 15 min: 0.6 ppm 15 minutes.                      Limit value 8 hours: 0.3 ppm 8 hours.</p>
n-Butyl acetate	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</b>                      STELV: 723 mg/m<sup>3</sup> 15 minutes.                      STELV: 150 ppm 15 minutes.                      ELV: 241 mg/m<sup>3</sup> 8 hours.                      ELV: 50 ppm 8 hours.</p>
Butan-1-ol	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.</b>                      STELV: 154 mg/m<sup>3</sup> 15 minutes.                      STELV: 50 ppm 15 minutes.</p>
Ethyl acetate	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</b>                      STELV: 400 ppm 15 minutes.                      ELV: 200 ppm 8 hours.                      STELV: 1468 mg/m<sup>3</sup> 15 minutes.                      ELV: 734 mg/m<sup>3</sup> 8 hours.</p>
Formaldehyde	<p><b>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Skin sensitiser.</b>                      ELV: 0.62 mg/m<sup>3</sup> 8 hours. Form: health and funeral sector and embalming sector                      ELV: 0.5 ppm 8 hours. Form: health and funeral sector and embalming sector                      STELV: 0.74 mg/m<sup>3</sup> 15 minutes.                      STELV: 0.6 ppm 15 minutes.</p>
n-Butyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021).</b>                      STEL: 150 ppm 15 minutes.                      STEL: 723 mg/m<sup>3</sup> 15 minutes.                      TWA: 50 ppm 8 hours.                      TWA: 241 mg/m<sup>3</sup> 8 hours.</p>
Ethyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021).</b>                      STEL: 400 ppm 15 minutes.                      STEL: 1468 mg/m<sup>3</sup> 15 minutes.                      TWA: 200 ppm 8 hours.</p>

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Formaldehyde	<p>TWA: 734 mg/m<sup>3</sup> 8 hours.  <b>EU OEL (Europe, 10/2019). Skin sensitiser.</b>                      STEL: 0.6 ppm 15 minutes.                      STEL: 0.74 mg/m<sup>3</sup> 15 minutes.                      TWA: 0.62 ppm 8 hours.                      TWA: 0.5 mg/m<sup>3</sup> 8 hours.</p>
n-Butyl acetate	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022).</b>                      TWA: 241 mg/m<sup>3</sup> 8 hours.                      STEL: 723 mg/m<sup>3</sup> 15 minutes.                      STEL: 149.661 ppm 15 minutes.                      TWA: 49.887 ppm 8 hours.</p>
Butan-1-ol	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [Butanol (all isomers)] Absorbed through skin.</b>                      TWA: 300 mg/m<sup>3</sup> 8 hours.                      TWA: 97.5 ppm 8 hours.                      STEL: 600 mg/m<sup>3</sup> 15 minutes.                      STEL: 195 ppm 15 minutes.</p>
Ethyl acetate	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022).</b>                      TWA: 700 mg/m<sup>3</sup> 8 hours.                      TWA: 191.1 ppm 8 hours.                      STEL: 900 mg/m<sup>3</sup> 15 minutes.                      STEL: 245.7 ppm 15 minutes.</p>
Formaldehyde	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [formaldehyd] Skin sensitiser.</b>                      TWA: 0.5 mg/m<sup>3</sup> 8 hours. Form: for health services, funeral services and embalming services                      STEL: 0.74 mg/m<sup>3</sup> 15 minutes. Form: for health services, funeral services and embalming services                      STEL: 0.59274 ppm 15 minutes. Form: for health services, funeral services and embalming services                      TWA: 0.4005 ppm 8 hours. Form: for health services, funeral services and embalming services                      TWA: 0.37 mg/m<sup>3</sup> 8 hours. Form: outside the field of health services, funeral services and embalming services                      TWA: 0.29637 ppm 8 hours. Form: outside the field of health services, funeral services and embalming services                      STEL: 0.74 mg/m<sup>3</sup> 15 minutes. Form: outside the field of health services, funeral services and embalming services                      STEL: 0.59274 ppm 15 minutes. Form: outside the field of health services, funeral services and embalming services</p>
No exposure limit value known.	
No exposure limit value known.	
n-Butyl acetate	<p><b>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values</b>                      STEL: 150 ppm 15 minutes.                      STEL: 723 mg/m<sup>3</sup> 15 minutes.                      TWA: 241 mg/m<sup>3</sup> 8 hours.                      TWA: 50 ppm 8 hours.</p>
Ethyl acetate	<p><b>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values</b>                      STEL: 400 ppm 15 minutes.                      STEL: 1468 mg/m<sup>3</sup> 15 minutes.                      TWA: 200 ppm 8 hours.                      TWA: 734 mg/m<sup>3</sup> 8 hours.</p>
Formaldehyde	<p><b>EU OEL (Europe, 10/2019). Skin sensitiser.</b>                      STEL: 0.6 ppm 15 minutes.                      STEL: 0.74 mg/m<sup>3</sup> 15 minutes.                      TWA: 0.62 ppm 8 hours.                      TWA: 0.5 mg/m<sup>3</sup> 8 hours.</p>
No exposure limit value known.	



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n-Butyl acetate	<b>Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</b> TWA: 50 ppm 8 hours. TWA: 241 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m <sup>3</sup> 15 minutes.
Butan-1-ol	<b>Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars)</b> STEL: 50 ppm 15 minutes. STEL: 150 mg/m <sup>3</sup> 15 minutes.
Ethyl acetate	<b>Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</b> TWA: 200 ppm 8 hours. TWA: 734 mg/m <sup>3</sup> 8 hours. STEL: 1468 mg/m <sup>3</sup> 15 minutes. STEL: 400 ppm 15 minutes.
Formaldehyde	<b>Ministry of Labor (France, 10/2022). Skin sensitiser. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</b> TWA: 0.3 ppm 8 hours. STEL: 0.6 ppm 15 minutes. TWA: 0.5 ppm 8 hours. Form: the healthcare, funeral directors and embalming sectors TWA: 0.62 mg/m <sup>3</sup> 8 hours. Form: the healthcare, funeral directors and embalming sectors STEL: 0.74 mg/m <sup>3</sup> 15 minutes. TWA: 0.37 mg/m <sup>3</sup> 8 hours.
No exposure limit value known.	
No exposure limit value known.	
No exposure limit value known.	
No exposure limit value known.	
n-Butyl acetate	<b>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m <sup>3</sup> 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m <sup>3</sup> 15 minutes.
Butan-1-ol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV-8hr: 20 ppm 8 hours.
Ethyl acetate	<b>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. OELV-15min: 1468 mg/m <sup>3</sup> 15 minutes. OELV-8hr: 734 mg/m <sup>3</sup> 8 hours.
Formaldehyde	<b>NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 0.3 ppm 8 hours. OELV-15min: 0.6 ppm 15 minutes. OELV-15min: 0.738 mg/m <sup>3</sup> 15 minutes. OELV-8hr: 0.37 mg/m <sup>3</sup> 8 hours.
No exposure limit value known.	
No exposure limit value known.	
n-Butyl acetate	<b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b> TWA: 241 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.
Butan-1-ol	<b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin.</b>

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Ethyl acetate	<p>TWA: 45 mg/m<sup>3</sup> 8 hours.  TWA: 15 ppm 8 hours.  CEIL: 90 mg/m<sup>3</sup>  CEIL: 30 ppm</p> <p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b>  TWA: 500 mg/m<sup>3</sup> 8 hours.  TWA: 150 ppm 8 hours.  CEIL: 1100 mg/m<sup>3</sup>  CEIL: 300 ppm</p>
Formaldehyde	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin sensitiser. Inhalation sensitiser.</b>  TWA: 0.37 mg/m<sup>3</sup> 8 hours.  TWA: 0.3 ppm 8 hours.  STEL: 0.6 ppm 15 minutes.  STEL: 0.74 mg/m<sup>3</sup> 15 minutes.</p>
No exposure limit value known. No exposure limit value known. No exposure limit value known. No exposure limit value known.	
n-Butyl acetate	<p><b>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).</b>  TWA: 240 mg/m<sup>3</sup> 8 hours.  STEL: 720 mg/m<sup>3</sup> 15 minutes.</p>
Butan-1-ol	<p><b>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.</b>  TWA: 50 mg/m<sup>3</sup> 8 hours.  STEL: 150 mg/m<sup>3</sup> 15 minutes.</p>
Ethyl acetate	<p><b>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).</b>  TWA: 734 mg/m<sup>3</sup> 8 hours.  STEL: 1468 mg/m<sup>3</sup> 15 minutes.</p>
Formaldehyde	<p><b>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.</b>  TWA: 0.37 mg/m<sup>3</sup> 8 hours.  STEL: 0.74 mg/m<sup>3</sup> 15 minutes.</p>
No exposure limit value known. No exposure limit value known. n-Butyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates]</b>  TWA: 241 mg/m<sup>3</sup>, (Butyl acetates) 8 hours.  TWA: 50 ppm, (Butyl acetates) 8 hours.  STEL: 723 mg/m<sup>3</sup>, (Butyl acetates) 15 minutes.  STEL: 150 ppm, (Butyl acetates) 15 minutes.</p>
Butan-1-ol	<p><b>Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl alcohols]</b>  TWA: 310 mg/m<sup>3</sup>, (Butyl alcohols) 8 hours.  TWA: 100 ppm, (Butyl alcohols) 8 hours.</p>
Ethyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 9/2020).</b>  TWA: 734 mg/m<sup>3</sup> 8 hours.</p>

## SECTION 8: Exposure controls/personal protection

<p>Formaldehyde</p> <p>No exposure limit value known.</p>	<p>TWA: 200 ppm 8 hours.          STEL: 1468 mg/m<sup>3</sup> 15 minutes.          STEL: 400 ppm 15 minutes.  <b>Government regulation SR c. 356/2006 (Slovakia, 9/2020). Skin sensitiser.</b>          Technical guidance value: 0.37 mg/m<sup>3</sup> 8 hours.          Technical guidance value: 0.3 ppm 8 hours.</p>
<p>n-Butyl acetate</p>	<p><b>National institute of occupational safety and health (Spain, 4/2022).</b>          TWA: 50 ppm 8 hours.          TWA: 241 mg/m<sup>3</sup> 8 hours.          STEL: 150 ppm 15 minutes.          STEL: 723 mg/m<sup>3</sup> 15 minutes.</p>
<p>Butan-1-ol</p>	<p><b>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</b>          STEL: 50 ppm 15 minutes.          STEL: 154 mg/m<sup>3</sup> 15 minutes.          TWA: 20 ppm 8 hours.          TWA: 61 mg/m<sup>3</sup> 8 hours.</p>
<p>Ethyl acetate</p>	<p><b>National institute of occupational safety and health (Spain, 4/2022).</b>          TWA: 200 ppm 8 hours.          TWA: 734 mg/m<sup>3</sup> 8 hours.          STEL: 1468 mg/m<sup>3</sup> 15 minutes.          STEL: 400 ppm 15 minutes.</p>
<p>Formaldehyde</p> <p>No exposure limit value known.</p>	<p><b>National institute of occupational safety and health (Spain, 4/2022). Skin sensitiser.</b>          STEL: 0.6 ppm 15 minutes.          STEL: 0.74 mg/m<sup>3</sup> 15 minutes.          TWA: 0.37 mg/m<sup>3</sup> 8 hours.          TWA: 0.3 ppm 8 hours.</p>
<p>No exposure limit value known.</p> <p>No exposure limit value known.</p> <p>n-Butyl acetate</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b>          STEL: 966 mg/m<sup>3</sup> 15 minutes.          STEL: 200 ppm 15 minutes.          TWA: 724 mg/m<sup>3</sup> 8 hours.          TWA: 150 ppm 8 hours.</p>
<p>Butan-1-ol</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b>          STEL: 154 mg/m<sup>3</sup> 15 minutes.          STEL: 50 ppm 15 minutes.</p>
<p>Ethyl acetate</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b>          STEL: 400 ppm 15 minutes.          TWA: 200 ppm 8 hours.          STEL: 1468 mg/m<sup>3</sup> 15 minutes.          TWA: 734 mg/m<sup>3</sup> 8 hours.</p>
<p>Xylene</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin.</b>          STEL: 441 mg/m<sup>3</sup> 15 minutes.          TWA: 50 ppm 8 hours.          TWA: 220 mg/m<sup>3</sup> 8 hours.          STEL: 100 ppm 15 minutes.</p>
<p>Ethylbenzene</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b>          STEL: 552 mg/m<sup>3</sup> 15 minutes.          STEL: 125 ppm 15 minutes.          TWA: 100 ppm 8 hours.          TWA: 441 mg/m<sup>3</sup> 8 hours.</p>
<p>Formaldehyde</p>	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b>          STEL: 2.5 mg/m<sup>3</sup> 15 minutes.          STEL: 2 ppm 15 minutes.</p>

## SECTION 8: Exposure controls/personal protection

TWA: 2 ppm 8 hours.  
TWA: 2.5 mg/m<sup>3</sup> 8 hours.

### Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
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No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Butan-1-ol	<p><b>Government regulation SR c. 355/2006 (Slovakia, 9/2020)</b>                      BLV: 15.34 µmol/mmol creatinine, n-butyl alcohol [in urine].                      Sampling time: at the end of exposure or work shift.                      BLV: 10 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time:                      at the end of exposure or work shift.                      BLV: 3.13 µmol/mmol creatinine, n-butyl alcohol [in urine].                      Sampling time: before the next work shift.                      BLV: 2 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time:                      before the next work shift.</p>
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Xylene	<p><b>EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers]</b>                      BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine].                      Sampling time: post shift.</p>

## SECTION 8: Exposure controls/personal protection

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

### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	Workers	Systemic
	Butan-1-ol	DNEL	Long term Oral	1.5625 mg/kg bw/day	General population
DNEL		Long term Dermal	3.125 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	55.357 mg/m <sup>3</sup>	General population	Systemic
DNEL		Long term Inhalation	155 mg/m <sup>3</sup>	General population	Local
DNEL		Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	734 mg/m <sup>3</sup>	General population	Systemic

## SECTION 8: Exposure controls/personal protection

Formaldehyde	DNEL	Long term Inhalation	734 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	734 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	1468 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	0.375 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	0.75 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	12 µg/cm <sup>2</sup>	General population	Local
	DNEL	Long term Dermal	37 µg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	0.1 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	3.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	4.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	9 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	102 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	240 mg/kg bw/day	Workers	Systemic

### PNECs

No PNECs available

### 8.2 Exposure controls

#### **Appropriate engineering controls**

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

##### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

##### **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.

## SECTION 8: Exposure controls/personal protection

- 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- 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: A  
Filter type (spray application): A P
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Various
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** :

Ingredient name	°C	°F	Method
Ethyl acetate	77.1	170.8	
Butan-1-ol	119	246.2	OECD 103

- Flammability** : Not available.
- Lower and upper explosion limit** : Lower: 1.4%  
Upper: 11.5%
- Flash point** : Closed cup: 25°C (77°F)
- Auto-ignition temperature** :

Ingredient name	°C	°F	Method
Butan-1-ol	355	671	EU A.15
n-Butyl acetate	415	779	EU A.15

- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Not available.
- Solubility(ies)** :  
Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** :

## SECTION 9: Physical and chemical properties

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			

<b>Relative density</b>	: Not available.
<b>Density</b>	: 1.3 g/cm <sup>3</sup>
<b>Vapour density</b>	: Not available.
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not available.
<b>Particle characteristics</b>	
<b>Median particle size</b>	: Not applicable.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<b>10.5 Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidising materials
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Urea-formaldehyde-polymer	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

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

#### Acute toxicity estimates

Route	ATE value
Oral	19268.29 mg/kg

#### Irritation/Corrosion



## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Urea-formaldehyde-polymer	Eyes - Severe irritant	Rabbit	-	24 hours 100 uL	-
Butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
Formaldehyde	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Human	-	6 minutes 1 ppm	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 ug	-
	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Mild irritant	Human	-	72 hours 150 ug l	-
	Skin - Moderate irritant	Rabbit	-	540 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Severe irritant	Human	-	0.01 %	-
Skin - Severe irritant	Rabbit	-	0.8 %	-	
Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-	

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

### Sensitisation

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

### Mutagenicity

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

### 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.

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

### Reproductive toxicity

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

### Teratogenicity

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

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3	-	Narcotic effects
Butan-1-ol	Category 3	-	Respiratory tract irritation
Ethyl acetate	Category 3	-	Narcotic effects
Formaldehyde	Category 3	-	Narcotic effects Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

*Date of issue/Date of revision* : 24/01/2024 *Date of previous issue* : No previous validation *Version* : 1 17/24

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**Label No** : 51843

## SECTION 11: Toxicological information

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

#### Short term exposure

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

#### Long term exposure

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

### Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - <i>Artemia salina</i>	48 hours
titanium dioxide	Acute LC50 18000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute LC50 3 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia dubia</i> - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 µg/l Marine water	Fish - <i>Fundulus heteroclitus</i>	96 hours
Butan-1-ol	Acute EC50 1983000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - <i>Gammarus pulex</i>	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - <i>Daphnia cucullata</i>	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - <i>Heteropneustes fossilis</i>	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
Formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 0.788 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia dubia</i> - Neonate	48 hours
	Acute EC50 5800 µg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 0.005 mg/l Marine water	Algae - <i>Isochrysis galbana</i> - Exponential growth phase	96 hours
	Chronic NOEC 953.9 ppm Fresh water	Fish - <i>Oncorhynchus tshawytscha</i> - Egg	43 days

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

### 12.2 Persistence and degradability

**Conclusion/Summary** : This product has not been tested for biodegradation.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
n-Butyl acetate	2.3	-	Low
Butan-1-ol	1	-	Low
Ethyl acetate	0.68	30	Low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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

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





**European waste catalogue (EWC)** : 08.01.11

#### Packaging

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

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, butan-1-ol)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, butan-1-ol)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate)
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

#### Additional information

**ADR/RID** : **Tunnel code** (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments** : Not relevant/applicable due to nature of the product.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
TEKNOCOAT PRIMER 1604-20	≥90	3
Formaldehyde	<0.1	72

Labelling :

#### Other EU regulations

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

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

Explosive precursors : Not applicable.

#### Ozone depleting substances (1005/2009/EU)

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
P5c

#### National regulations

##### Austria

VbF class : A II  
Very dangerous flammable liquid.

Limitation of the use of organic solvents : Permitted.

##### Czech Republic

Storage code : II

##### Denmark

##### Finland

##### France

Social Security Code, Articles L 461-1 to L 461-7 : n-Butyl acetate RG 84  
Butan-1-ol RG 84  
Ethyl acetate RG 84  
Formaldehyde RG 43, RG 43bis, RG 84

## SECTION 15: Regulatory information

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

### Germany

#### Hazardous incident ordinance

### Italy

### Netherlands

### Norway

### Sweden

### Switzerland

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

### **Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
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
Flam. Liq. 3, H226 Eye Dam. 1, H318 STOT SE 3, H336	On basis of test data Calculation method Calculation method

### Full text of abbreviated H statements

## SECTION 16: Other information

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Carc. 1B	CARCINOGENICITY - Category 1B
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

**Date of issue/ Date of revision** : 24/01/2024

**Date of previous issue** : No previous validation

**Version** : 1

TEKNOCOAT PRIMER 1604-20

All variants

### Notice to reader

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

