Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET



TEKNOCOAT PRIMER 1603-11

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

1.1 Product ident	ifier
Product name	

: TEKNOCOAT PRIMER 1603-11

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

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. 2, H225 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	: H225 - Highly flammable liquid and vapour. H336 - May cause drowsiness or dizziness.
Precautionary statements	
Prevention	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapour.
Response	: P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: n-Butyl acetate

SECTION 2: Hazards identification

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	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	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 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≤5	Aquatic Chronic 4, H413	-	[1]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226	-	[2]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≤3	Aquatic Chronic 4, H413	-	[1]
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, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: $C \ge 25\%$ Skin Irrit. 2, H315: $5\% \le C < 25\%$ Eye Dam. 1, H318:	[1] [2]

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SECTION 3: Composition	nformation on ingredients
	$C \ge 25\%$ Eye Irrit. 2, H319: $5\% \le C < 25\%$ Skin Sens. 1, H317: $C \ge 0.2\%$ STOT SE 3, H335: $C \ge 5\%$ See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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 \leq 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	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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. Get medical attention. If necessary, call a poison center or physician. 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	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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 necessary, call a poison center or 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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

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SECTION 4: First aid measures

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
Skin contact	: No specific data.	
Ingestion	: No specific data.	

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , 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	:	Highly 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 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. 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

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6.1 Personal precautions, pro	te	ctive 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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SECTION 6: Accidental release measures

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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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

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 criteriaCategoryNotification and MAPP
thresholdSafety report thresholdP5c5000 tonne50000 tonne

7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

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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	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m ³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethanol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m ³ 8 hours.
	CEIL: 2000 ppm, 3 times per shift, 60 minutes.
	CEIL: 3800 mg/m ³ , 3 times per shift, 60 minutes.
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	CEIL: 100 ppm, 8 times per shift, 5 minutes.
	CEIL: 550 mg/m ³ , 8 times per shift, 5 minutes.
Formaldehyde	Regulation on Limit Values - MAC (Austria, 4/2021). Skin
	sensitiser.
	TWA: 0.3 ppm 8 hours.
	TWA: 0.37 mg/m ³ 8 hours.
	CEIL: 0.6 ppm 15 minutes.
	CEIL: 0.74 mg/m ³ 15 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
n-Dutyl acetate	STEL: 712 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethanol	Limit values (Belgium, 5/2021).
	TWA: 1000 ppm 8 hours.
	TWA: 1907 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
Formaldehyde	Limit values (Belgium, 5/2021).
,	Limit value - M: 0.3 ppm
	Limit value - M: 0.38 mg/m ³
	0
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/m ³ 8 hours.
	Limit value 15 min: 723 mg/m ³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Ethanol	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 1000 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 8 hours: 275 mg/m ³ 8 hours.
	Limit value 15 min: 550 mg/m³ 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Formaldehyde	Ministry of Labour and Social Policy and the Ministry of
	· , · · · · · · · · · · · · · · · · · ·

		Health - Ordinance No 10/2003. (Bulgaria, 6/2021). Skin sensitiser. 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 ³ 8 hours. Form: For the healthcare, funeral and embalming sectors Limit value 15 min: 0.74 mg/m ³ 15 minutes.
		Limit value 8 hours: 0.37 mg/m³ 8 hours. Limit value 15 min: 0.6 ppm 15 minutes. Limit value 8 hours: 0.3 ppm 8 hours.
	n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 723 mg/m ³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m ³ 8 hours.
	Ethanol	ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). ELV: 1900 mg/m ³ 8 hours. ELV: 1000 ppm 8 hours.
	2-Methoxy-1-methylethyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 550 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 275 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
	Formaldehyde	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Skin sensitiser. ELV: 0.62 mg/m ³ 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 ³ 15 minutes. STELV: 0.6 ppm 15 minutes.
	n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
	2-Methoxy-1-methylethyl acetate	Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours.
	Formaldehyde	EU OEL (Europe, 10/2019). Skin sensitiser. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m ³ 15 minutes. TWA: 0.62 ppm 8 hours. TWA: 0.5 mg/m ³ 8 hours.
	n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 241 mg/m ³ 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours.
	Ethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 1000 mg/m ³ 8 hours. TWA: 522 ppm 8 hours. STEL: 3000 mg/m ³ 15 minutes. STEL: 1566 ppm 15 minutes.
	2-Methoxy-1-methylethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.
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SECTION 8: Exposure controls/pe	ersonal protection
	TWA: 270 mg/m ³ 8 hours.
	TWA: 49.14 ppm 8 hours.
	STEL: 550 mg/m ³ 15 minutes.
Formeldebyde	STEL: 100.1 ppm 15 minutes.
Formaldehyde	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). [formaldehyd] Skin sensitiser. TWA: 0.5 mg/m ³ 8 hours. Form: for health services, funeral
	services and embalming services
	STEL: 0.74 mg/m ³ 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 ³ 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 ³ 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
n-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl
,	acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
Eth an al	STEL: 150 ppm 15 minutes.
Ethanol	Working Environment Authority (Denmark, 6/2022).
	TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.
	STEL: 3800 mg/m ³ 15 minutes.
	STEL: 2000 ppm 15 minutes.
2-Methoxy-1-methylethyl acetate	Working Environment Authority (Denmark, 6/2022).
, , ,	[2-Methoxy-1-methylethyl acetate] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Formaldehyde	Working Environment Authority (Denmark, 6/2022). Skin
	sensitiser. Carcinogen.
	TWA: 0.37 mg/m ³ 8 hours. TWA: 0.3 ppm 8 hours.
	STEL: 0.74 mg/m ³ 15 minutes.
	STEL: 0.6 ppm 15 minutes.
n-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
Ethanol	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	TWA: 1000 mg/m³ 8 hours.
	TWA: 500 ppm 8 hours.
	STEL: 1900 mg/m ³ 15 minutes.
2 Matheway 1 methylathyl contate	STEL: 1000 ppm 15 minutes.
2-Methoxy-1-methylethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin. Skin sensitiser. STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Formaldehyde	Occupational exposure limits, Regulation No. 293 (Estonia,
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	12/2022). Skin sensitiser.
	TWA: 0.5 ppm 8 hours. Form: In the healthcare, funeral and
	embalming sector
	TWA: 0.62 mg/m ³ 8 hours. Form: In the healthcare, funeral and
	embalming sector
	TWA: 0.37 mg/m ³ 8 hours.
	TWA: 0.3 ppm 8 hours.
	STEL: 0.6 ppm 5 minutes.
	STEL: 0.74 mg/m ³ 5 minutes.
n Rutul apotato	EU OEL (Europe, 1/2022). Notes: list of indicative
n-Butyl acetate	
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
Formaldehyde	EU OEL (Europe, 10/2019). Skin sensitiser.
	STEL: 0.6 ppm 15 minutes.
	STEL: 0.74 mg/m ³ 15 minutes.
	TWA: 0.62 ppm 8 hours.
	TWA: 0.5 mg/m ³ 8 hours.
. Dutid a satata	C C C C C C C C C C C C C C C C C C C
n-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 960 mg/m ³ 15 minutes.
Ethanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m ³ 8 hours.
	STEL: 1300 ppm 15 minutes.
	STEL: 2500 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
Formaldehyde	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Skin sensitiser.
	TWA: 0.5 ppm 8 hours. Form: Healthcare and burials in the
	embalming sector
	TWA: 0.3 ppm 8 hours.
	TWA: 0.37 mg/m ³ 8 hours.
	STEL: 0.74 mg/m ³ 15 minutes.
	STEL: 0.6 ppm 15 minutes.
n-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
	limit values (article R. 4412-149 of the Labor Code)
	· · · · · · · · · · · · · · · · · · ·
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Ethanol	Ministry of Labor (France, 10/2022). Notes: Permissible limit
	values (circulars)
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m ³ 8 hours.
	STEL: 5000 ppm 15 minutes.
	STEL: 5000 ppm 15 minutes. STEL: 9500 mg/m³ 15 minutes.

SECTION 8: Exposure controls/personal protection				
2-Methoxy-1-methylethyl acetate			France, 10/2022). Absor ulatory limit values (art	
		STEL: 550 mg/m ³ 1 STEL: 100 ppm 15	minutes.	
Formaldehyde		TWA: 275 mg/m ³ 8 TWA: 50 ppm 8 ho Ministry of Labor (f		ensitiser. Notes:
		Labor Code) TWA: 0.3 ppm 8 hc STEL: 0.6 ppm 15 r TWA: 0.5 ppm 8 hc and embalming sect	minutes. ours. Form: the healthcar ors	e, funeral directors
		and embalming sect STEL: 0.74 mg/m³ TWA: 0.37 mg/m³ 8	15 minutes.	care, funeral directors
n-Butyl acetate		TWA: 100 ppm 8 h PEAK: 200 ppm, 4 TWA: 480 mg/m ³ 8 PEAK: 960 mg/m ³ , TRGS 900 OEL (Ge TWA: 300 mg/m ³ 8 TWA: 62 ppm 8 ho PEAK: 600 mg/m ³	times per shift, 15 minut hours. 4 times per shift, 15 min rmany, 6/2022). hours. urs. 15 minutes.	
Ethanol		TWA: 200 ppm 8 h PEAK: 800 ppm, 4 TWA: 380 mg/m ³ 8	rmany, 6/2022). hours. 15 minutes. ours. minutes. st (Germany, 7/2022). ours. times per shift, 15 minut	
2-Methoxy-1-methylethyl acetate		TRGS 900 OEL (Ge TWA: 270 mg/m ³ 8 PEAK: 270 mg/m ³ TWA: 50 ppm 8 ho PEAK: 50 ppm 15 r DFG MAC-values lis TWA: 50 ppm 8 ho PEAK: 50 ppm, 4 ti TWA: 270 mg/m ³ 8	rmany, 6/2022). hours. 15 minutes. urs. minutes. st (Germany, 7/2022). urs. mes per shift, 15 minute	S.
Formaldehyde		DFG MAC-values lia TWA: 0.3 ppm 8 ho CEIL: 1 ml/m ³ TWA: 0.37 mg/m ³ 8 CEIL: 1.2 mg/m ³ PEAK: 0.74 mg/m ³ , PEAK: 0.6 ppm, 4 t	st (Germany, 7/2022). S burs. 3 hours. 4 times per shift, 15 min imes per shift, 15 minute rmany, 6/2022). Skin se 3 hours. burs. minutes.	kin sensitiser. nutes. es.
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SECTION 8: Exposure controls/personal protection		
n-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit	
	values (Greece, 9/2021).	
	TWA: 50 ppm 8 hours.	
	TWA: 241 mg/m ³ 8 hours.	
	STEL: 150 ppm 15 minutes.	
	STEL: 723 mg/m ³ 15 minutes.	
Ethanol	Presidential Decree 307/1986: Occupational exposure limit	
	values (Greece, 9/2021).	
	TWA: 1000 ppm 8 hours.	
	TWA: 1900 mg/m ³ 8 hours.	
2-Methoxy-1-methylethyl acetate	Presidential Decree 307/1986: Occupational exposure limit	
	values (Greece, 9/2021). Absorbed through skin.	
	TWA: 50 ppm 8 hours.	
	TWA: 275 mg/m ³ 8 hours.	
	STEL: 100 ppm 15 minutes.	
	STEL: 550 mg/m ³ 15 minutes.	
Formaldehyde	Presidential Decree 307/1986: Occupational exposure limit	
	values (Greece, 9/2021). Skin sensitiser.	
	TWA: 0.62 ppm 8 hours. Form: sectors of health care, funerals	
	and embalming	
	STEL: 0.6 ppm 15 minutes.	
	STEL: 0.74 mg/m ³ 15 minutes.	
	TWA: 0.5 mg/m ³ 8 hours. Form: sectors of health care, funerals	
	and embalming	
n-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser.	
	Inhalation sensitiser.	
	TWA: 241 mg/m ³ 8 hours.	
	PEAK: 723 mg/m ³ 15 minutes.	
	PEAK: 150 ppm 15 minutes.	
	TWA: 50 ppm 8 hours.	
Ethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).	
	TWA: 1900 mg/m ³ 8 hours.	
	PEAK: 3800 mg/m ³ 15 minutes.	
	PEAK: 2000 ppm 15 minutes.	
2 Mothevy 1 methylethyl apoteto	TWA: 1000 ppm 8 hours.	
2-Methoxy-1-methylethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).	
	TWA: 275 mg/m³ 8 hours. PEAK: 550 mg/m³ 15 minutes.	
	PEAK: 100 ppm 15 minutes.	
	TWA: 50 ppm 8 hours.	
Formaldehyde	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed	
	through skin. Skin sensitiser. Inhalation sensitiser.	
	PEAK: 0.6 mg/m ³ 15 minutes. Form: in the healthcare sector,	
	funerals and embalming	
	TWA: 0.6 mg/m ³ 8 hours. Form: in the healthcare sector, funerals	
	and embalming	
	PEAK: 0.5 ppm 15 minutes. Form: in the healthcare sector,	
	funerals and embalming	
	TWA: 0.5 ppm 8 hours. Form: in the healthcare sector, funerals	
	and embalming	
	TWA: 0.37 mg/m ³ 8 hours.	
	PEAK: 0.74 mg/m ³ 15 minutes.	
	PEAK: 0.6 ppm 15 minutes.	
	TWA: 0.3 ppm 8 hours.	
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	[butyl acetate, all isomers]	
	TWA: 241 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	
	STEL: 723 mg/m ³ 15 minutes.	
	STEL: 150 ppm 15 minutes.	
Ethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
	TWA: 1900 mg/m ³ 8 hours.	
	TWA: 1000 ppm 8 hours.	
2-Methoxy-1-methylethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).	
1	I	

	Absorbed through skin.
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Formaldehyde	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021)
	Absorbed through skin.
	STEL: 0.74 mg/m ³ 15 minutes.
	STEL: 0.6 ppm 15 minutes.
	TWA: 0.37 mg/m ³ 8 hours.
	TWA: 0.3 ppm 8 hours.
-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m ³ 15 minutes.
Ethanol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-15min: 1000 ppm 15 minutes.
P-Methoxy-1-methylethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 275 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 550 mg/m ³ 15 minutes.
Formaldehyde	NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU
,	derived Occupational Exposure Limit Values
	OELV-8hr: 0.3 ppm 8 hours.
	OELV-15min: 0.6 ppm 15 minutes.
	OELV-15min: 0.738 mg/m ³ 15 minutes.
	OELV-8hr: 0.37 mg/m ³ 8 hours.
Putul apotato	C C
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 275 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 550 mg/m ³ 15 minutes.
Formaldehyde	EU OEL (Europe, 10/2019). Skin sensitiser.
	STEL: 0.6 ppm 15 minutes.
	STEL: 0.74 mg/m ³ 15 minutes.
	TWA: 0.62 ppm 8 hours.
	TWA: 0.5 mg/m ³ 8 hours.
n-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
Ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
Mothowy 1 mothylathyl asstate	TWA: 1000 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m³ 15 minutes.
Formaldehyde	

SECTION 8: Exposure controls/personal protection Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Skin sensitiser. STEL: 0.5 ppm 15 minutes. Form: For the healthcare, funeral and embalming sectors TWA: 0.62 mg/m³ 8 hours. Form: For the healthcare, funeral and embalming sectors TWA: 0.37 mg/m³ 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.3 ppm 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). n-Butyl acetate TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Ethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 1000 mg/m³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1900 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). 2-Methoxy-1-methylethyl acetate Absorbed through skin. TWA: 250 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. Formaldehyde Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I n-Butyl acetate (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. Grand-Duchy Regulation 2016. Chemical agents. Annex I 2-Methoxy-1-methylethyl acetate (Luxembourg, 3/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Formaldehyde Grand-Duchy Regulation 2016. Carcinogens or mutagens agents. Annex III (Luxembourg, 3/2021). Skin sensitiser. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Ministry of Health (Malta, 1/2021). Skin sensitiser. Formaldehyde TWA: 0.5 ppm 8 hours.

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	TWA: 0.62 mg/m ³ 8 hours.
n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 241 mg/m ³ 8 hours.
	STEL,15-min: 723 mg/m ³ 15 minutes.
	STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.
Ethanol	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022). Absorbed through skin.
	OEL, 8-h TWA: 260 mg/m ³ 8 hours.
	STEL,15-min: 1900 mg/m ³ 15 minutes.
	STEL,15-min: 1000 ppm 15 minutes.
-Methoxy-1-methylethyl acetate	OEL, 8-h TWA: 137 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit value
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 550 mg/m ³ 8 hours.
	OEL, 8-h TWA: 100 ppm 8 hours.
ormaldehyde	Ministry of Social Affairs and Employment, Legal limit value (Netherlands, 12/2022). Skin sensitiser.
	OEL, 8-h TWA: 0.15 mg/m ³ 8 hours.
	STEL,15-min: 0.5 mg/m ³ 15 minutes.
	STEL,15-min: 0.41 ppm 15 minutes.
	OEL, 8-h TWA: 0.12 ppm 8 hours.
-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 241 mg/m ³ 8 hours.
41 I	TWA: 50 ppm 8 hours.
thanol	FOR-2011-12-06-1358 (Norway, 12/2022).
	TWA: 500 ppm 8 hours. TWA: 950 mg/m ³ 8 hours.
-Methoxy-1-methylethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Notes: indicative limit value
	TWA: 50 ppm 8 hours.
	TWA: $270 \text{ mg/m}^3 8 \text{ hours}.$
ormaldehyde	FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.
,	Carcinogen. Notes: binding limit value
	TWA: 0.3 ppm 8 hours.
	TWA: 0.37 mg/m ³ 8 hours.
	FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.
	Carcinogen.
	CEIL: 1 ppm
	CEIL: 1.2 mg/m ³
	STEL: 0.74 mg/m ³ 15 minutes. STEL: 0.6 ppm 15 minutes.
-Butyl acetate	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).
	TWA: 240 mg/m ³ 8 hours.
	STEL: 720 mg/m ³ 15 minutes.
thanol	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).
	TWA: 1900 mg/m ³ 8 hours.
-Methoxy-1-methylethyl acetate	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) (Polanc
	2/2021). Absorbed through skin.
	TWA: 260 mg/m ³ 8 hours.
	STEL: 520 mg/m ³ 15 minutes.
ormaldehyde	Regulation of the Minister of Family, Labor and Social Polic
	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) (Polanc
	2/2021). Absorbed through skin.
	TWA: 0.37 mg/m ³ 8 hours.
	STEL: 0.74 mg/m ³ 15 minutes.
Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 150 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
thanol	Portuguese Institute of Quality (Portugal, 11/2014).
	STEL: 1000 ppm 15 minutes.
Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: I
	of indicative occupational exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
ormaldehyde	Portuguese Institute of Quality (Portugal, 11/2014). Skin
	sensitiser.
	CEIL: 0.3 ppm
-Butyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
Daty accide	additions (Romania, 3/2021).
	VLA: 241 mg/m ³ 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 723 mg/m ³ 15 minutes.
	Short term: 150 ppm 15 minutes.
thanol	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021).
	VLA: 1900 mg/m ³ 8 hours.
	VLA: 1000 ppm 8 hours.
	Short term: 9500 mg/m ³ 15 minutes.
	Short term: 5000 ppm 15 minutes.
-Methoxy-1-methylethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 275 mg/m ³ 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 550 mg/m ³ 15 minutes.
	Short term: 100 ppm 15 minutes.
ormaldehyde	HG 1218/2006, Annex 1, with subsequent modifications and
omaidonydo	additions (Romania, 3/2021). Skin sensitiser.
	Short term: 0.5 mg/m ³ 15 minutes. Form: for the healthcare,
	funeral and embalming services sector
	VLA: 0.62 ppm 8 hours. Form: for the healthcare, funeral and
	embalming services sector
	VLA: 0.37 mg/m ³ 8 hours.
	VLA: 0.37 mg/m 8 hours. VLA: 0.3 ppm 8 hours.
	Short term: 0.74 mg/m ³ 15 minutes.
	Short term: 0.6 ppm 15 minutes.
Dutid a set of s	
-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[Butyl acetates]
	TWA: 241 mg/m ³ , (Butyl acetates) 8 hours.
	TWA: 50 ppm, (Butyl acetates) 8 hours.
	STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes.
	STEL: 150 ppm, (Butyl acetates) 15 minutes.
thanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 960 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
	STEL: 1920 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection STEL: 1000 ppm 15 minutes. 2-Methoxy-1-methylethyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 550 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Formaldehyde Government regulation SR c. 356/2006 (Slovakia, 9/2020). Skin sensitiser. Technical guidance value: 0.37 mg/m³ 8 hours. Regulation wider the state of workers from the risks related to n-Butyl acetate exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 ma/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. Ethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 960 mg/m³ 8 hours. TWA: 500 ppm 8 hours. KTV: 1920 mg/m³, 4 times per shift, 15 minutes. KTV: 1000 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to 2-Methoxy-1-methylethyl acetate exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 550 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on the protection of workers from the risks related Formaldehyde to exposure to carcinogens or mutagens (Slovenia, 7/2022). Absorbed through skin. Skin sensitiser. Peak: 0.6 ml/m3, 4 times per shift, 15 minutes. Peak: 0.74 mg/m³, 4 times per shift, 15 minutes. TWA: 0.3 ml/m3 8 hours. TWA: 0.37 mg/m³ 8 hours. n-Butyl acetate National institute of occupational safety and health (Spain, 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. National institute of occupational safety and health (Spain, Ethanol 4/2022). STEL: 1000 ppm 15 minutes. STEL: 1910 mg/m³ 15 minutes. National institute of occupational safety and health (Spain, 2-Methoxy-1-methylethyl acetate 4/2022). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Formaldehyde National institute of occupational safety and health (Spain, 4/2022). Skin sensitiser. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. Date of issue/Date of revision : 26/01/2024 16/32 Date of previous issue : No previous validation Version :1

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-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). [butyl acetate]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
thanol	STEL: 723 mg/m ³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 500 ppm 8 hours.
	TWA: 1000 mg/m ³ 8 hours.
	STEL: 1000 ppm 15 minutes.
	STEL: 1900 mg/m ³ 15 minutes.
P-Methoxy-1-methylethyl acetate	Work environment authority Regulation 2018:1 (Sweden,
5 5 5	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 275 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 550 mg/m ³ 15 minutes.
ormaldehyde	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin. Skin sensitiser.
	TWA: 0.3 ppm 8 hours.
	TWA: 0.37 mg/m ³ 8 hours.
	STEL: 0.6 ppm 15 minutes.
	STEL: 0.74 mg/m ³ 15 minutes.
n-Butyl acetate	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 720 mg/m ³ 15 minutes.
Ethanol	SUVA (Switzerland, 1/2023).
	TWA: 500 ppm 8 hours.
	TWA: 960 mg/m ³ 8 hours.
	STEL: 1000 ppm 15 minutes.
Mothewy 1 methylethyl exetete	STEL: 1920 mg/m ³ 15 minutes.
2-Methoxy-1-methylethyl acetate	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 275 mg/m ³ 15 minutes.
Formaldehyde	SUVA (Switzerland, 1/2023). Skin sensitiser.
official denyac	TWA: 0.3 ppm 8 hours.
	TWA: 0.37 mg/m ³ 8 hours.
	STEL: 0.6 ppm 15 minutes.
	STEL: 0.74 mg/m ³ 15 minutes.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
-Dulyi avelale	STEL: 966 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
Ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 1000 ppm 8 hours.
	TWA: 1920 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
,,	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Butanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 899 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.

SECTION 8: Exposure controls/personal protection		
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020).	
	STEL: 2.5 mg/m ³ 15 minutes.	
	STEL: 2 ppm 15 minutes.	
	TWA: 2 ppm 8 hours.	
	TWA: 2.5 mg/m ³ 8 hours.	
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed	
	through skin.	
	STEL: 552 mg/m ³ 15 minutes.	
	STEL: 125 ppm 15 minutes.	
	TWA: 100 ppm 8 hours.	
	TWA: 441 mg/m ³ 8 hours.	
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).	
	STEL: 400 ppm 15 minutes.	
	TWA: 200 ppm 8 hours.	
	STEL: 1468 mg/m ³ 15 minutes.	
	TWA: 734 mg/m ³ 8 hours.	

Biological exposure indices

Product/ingredient r	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.				
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Butanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 70 μmol/l, butan-2-one [in urine]. Sampling time: post shift.
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	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	35.7 mg/m ³		Local
		Inhalation		population	
	DNEL	Short term Inhalation	300 mg/m³	General population	Local
	DNEL	Short term	300 mg/m ³	General	Systemic
		Inhalation	j,	population	- ,
	DNEL	Long term Inhalation	300 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term	600 mg/m³	Workers	Systemic
		Inhalation		_	
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	12 mg/m ³	General	Systemic
		Inhalation	5	population	,
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
Ethanol	DNEL	Long term Oral	87 mg/kg	General	Systemic
	DIVLL	Long tonn ordi	bw/day	population	Cysternio
	DNEL	Long term	114 mg/m ³	General	Systemic
		Inhalation	114 mg/m	population	Oysternic
	DNEL		206 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day		Systemic
		Long torm Dormal		population Workers	Svotomio
	DNEL	Long term Dermal	343 mg/kg bw/day	WORKERS	Systemic
	DNEL	Short term	950 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term Inhalation	950 mg/m³	Workers	Systemic
	DNEL	Short term	1900 mg/	Workers	Local
		Inhalation	m ³		Local
2-Methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m ³	General	Local
z-meuloxy- i-meulyieulyi aceidle	DIVEL	Inhalation	55 mg/m	population	LUCAI
	DNEL	Long term	22 ma/m ³	General	Svetomia
	DINEL	0	33 mg/m ³		Systemic
		Inhalation	26 maller	population	Sustania
	DNEL	Long term Oral	36 mg/kg	General	Systemic
			bw/day	population	C. vata !-
	DNEL	Long term Inhalation	275 mg/m³	Workers	Systemic

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Label No :51778

ECTION 8: Exposu			CUUI		
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Inhalation	550 mg/m ³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
Formaldehyde	DNEL	Long term Inhalation	0.375 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	0.75 mg/m³	Workers	Local
	DNEL	Long term Dermal	12 µg/cm²	General population	Local
	DNEL	Long term Dermal	37 µg/cm²	Workers	Local
	DNEL	Long term Inhalation	0.1 mg/m ³	General population	Local
	DNEL	Long term Inhalation	3.2 mg/m ³	General population	Systemic
	DNEL	Long term Oral	4.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	9 mg/m ³	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 meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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.
Date of issue/Date of revision	: 26/01/2024 Date of previous issue : No previous validation Version : 1 20/32

-	
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	1 C
boiling range	

Ingredient name	°C	°F	Method
Ethanol	78.29	172.9	
n-Butyl acetate	126	258.8	OECD 103

Flammability
Lower and upper explosion
limit

: Not available. : Lower: 1.4%

Upper: 19% : Closed cup: 21°C (69.8°F)

t

2

Auto-ignition temperature

Flash point

Ingredient name		°C	°F	Method	
2-Methoxy-1-methylethyl acetate		333	631.4	DIN 51794	
n-Butyl acetate		415	779	EU A.15	
Decomposition temperature	: Not ava	ilable.		•	
рН	: Not app	licable.			
Viscosity	: Not ava	ilable.			
Solubility(ies)	1 C				
Not available.					

Solubility in water	: Not available

Partition coefficient: n-octanol/	1	Not applicable.
water		

Vapour pressure

	Vap	our Pressu	re at 20°C	Vap	pour pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethanol	42.94865	5.7				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			

: 26/01/2024 Date of previous issue

SECTION 9: Physical and chemical properties

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

SECTION 10: Stability and reactivity		
10.1 Reactivity	Io specific test data related to reactivity available for this product or its in	ngredients.
10.2 Chemical stability	he product is stable.	
10.3 Possibility of hazardous reactions	Inder normal conditions of storage and use, hazardous reactions will no	t occur.
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurise praze, solder, drill, grind or expose containers to heat or sources of igniti	
10.5 Incompatible materials	Reactive or incompatible with the following materials: inxidising materials	
10.6 Hazardous decomposition products	Inder normal conditions of storage and use, hazardous decomposition phould not be produced.	products

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	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
2-Methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 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
Not available.	

Irritation/Corrosion

titanium dioxide Urea-formaldehyde-polymer Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Ethanol Eth	e Observation	Exposure	Score	Species	Result	Product/ingredient name
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Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

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SECTION 11: Toxicological information

	5
Information on likely routes of exposure	: Not available.
Potential acute health effects	<u>2</u>
Eye contact	: No known significant effects or critical hazards.
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 phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	ts 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 effe	<u>ects</u>
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

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - 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 - Fundulus heteroclitus	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 μg/l Marine water	Crustaceans - <i>Artemia</i> <i>franciscana</i> - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki -</i> Larvae	12 weeks
Formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	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 - Ceriodaphnia dubia - 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 - Oncorhynchus mykiss	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 - Oncorhynchus tshawytscha - 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	LogPow	BCF	Potential
n-Butyl acetate Ethanol 2-Methoxy-1-methylethyl acetate	2.3 -0.35 1.2		Low Low Low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: 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.

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SECTION 13: Disposal considerations

13.1 Waste treatment metho	ds	
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	1	The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	1	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.
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	ΙΑΤΑ
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, 2-methoxy- 1-methylethyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethanol)	FLAMMABLE LIQUID, N.O.S. (2-methoxy- 1-methylethyl acetate)	FLAMMABLE LIQUID, N.O.S. (2-methoxy- 1-methylethyl acetate)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional information ADR/RID : Special provisions 640 (C) Tunnel code (D/E) ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. Special provisions 640 (C)				
14.6 Special precautions for user : Transport within user's premises: always transport in closed containers that a upright and secure. Ensure that persons transporting the product know what to d the event of an accident or spillage.				
14.7 Maritime trans bulk according to II instruments		nt/applicable due to natur	e of the product.	
Date of issue/Date of rev	rision : 26/01/2024	4 Date of previous issue	: No previous validation	Version :1 26/32
TEKNOCOAT PRIM	ER 1603-11			Label No :51778

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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 1603 Formaldehyde	3-11	≥90 <0.1	3 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 applicab	le.		
Ozone depleting substance Not listed.	<u>s (1005/2009/E</u>	<u>U)</u>		
Prior Informed Consent (PIC	<u>C) (649/2012/El</u>	<u>U)</u>		
Not listed.				
Persistent Organic Pollutan Not listed.	<u>ts</u>			
Seveso Directive				
This product is controlled und	er the Seveso [Directive.		
Danger criteria				
Category				
P5c				
National regulations				
<u>Austria</u>				
VbF class	: A II Very danger	ous flammab	le liquid.	
Limitation of the use of organic solvents	: Permitted.			
Czech Republic				
Storage code	: 11			
<u>Denmark</u>				
Danish fire class	: I-1			
Executive Order No. 1795/20	<u>015</u>			1
Ingredient name			Annex I Section A	Annex I Section B
titanium dioxide Propan-2-ol			Listed Listed	-
MAL-code	: 2-1			•

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SECTION 15: Regulatory information

Protection based on MAL	According to the regulations on work involving coded products, the following
Protection based on MAL	: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
	General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.
	In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.
	MAL-code: 2-1 Application: When using scraper or knife, brush, roller, etc, for pre- and post- treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post- treatments outside a closed facility, spray booth or spray cabin.
	- Air-supplied half mask must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone.
	- Air-supplied half mask, arm protectors and eye protection must be worn.
	During non-atomising spraying in existing* facilities of the combined-cabin, spray- cabin and spray-booth type where the operator is working inside the spray zone. 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.
	- Air-supplied half mask and eye protection 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 half mask, eye protection, coveralls and hood must be worn.
	Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.
	Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.
	Caution The regulations contain other stipulations in addition to the above.
	*See Regulations.
Low-boiling liquids	: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	: Not listed
	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.
<u>Finland</u> <u>France</u>	by Daman working environment registration on cancel fisks.

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SECTION 15: Regulatory information

Social Security Code,	n-Butyl acetate	RG 84
Articles L 461-1 to L 461-7	Ethanol	RG 84
	2-Methoxy-1-methylethyl acetate	RG 84
	Formaldehyde	RG 43, RG 43bis, RG 84
Reinforced medical surveillance	 Act of July 11, 1977 determining the list of activities v medical surveillance: not applicable 	vhich require reinforced
<u>Germany</u>		
	_	

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category		Reference number	
P5c		1.2.5.3	
Hazard class for water	: 1	Ļ	
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 32.4%		
AOX	. The product contains ergenically bound belogens and can contribute to the AOX		

ΑΟΧ

: The product contains organically bound halogens and can contribute to the AOX value in waste water.

Italy

D.Lgs. 152/06	: Not determined.
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Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
ethanol	Listed	-	Fertility 1A	Development 1A	Listed
Water Discharge Polic (ABM)	environn	nent (carcinogeni	substances with haza icity/ mutagenicity/ re econtamination effort	protoxicity/ bioacum	
<u>Norway</u>		. ,			
<u>Sweden</u>					
Flammable liquid clas (SRVFS 2005:10)	s : 2a				
Switzerland					
VOC content	: VOC (w/	w): 31.6%			
nternational regulation	<u>ns</u>				
hemical Weapon Con	vention List Sch	edules I, II & III (<u>Chemicals</u>		
Not listed.					
Iontreal Protocol					
Not listed.					
tockholm Convention	on Paraistant O	rgania Ballutan	to		
Not listed.		ryanic Ponulani	<u>13</u>		
Rotterdam Convention	on Prior Inform	ed Consent (PIC)		
Not listed.					
INECE Aarhus Protoco	ol on POPs and I	Heavy Metals			
Not listed.					
.2 Chemical safety sessment	: This pro required		ostances for which Cł	nemical Safety Asse	essments are sti

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
	On basis of test data Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
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
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 Sens. 1	SKIN SENSITISATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Notice to reader

SECTION 16: Other information

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

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