SAFETY DATA SHEET



TEKNOCOAT 1681-11

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

1.1 Product identifier

Product name : TEKNOCOAT 1681-11

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

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

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

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 Eye Irrit. 2, H319 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.

H319 - Causes serious eye irritation.

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.

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.

Date of issue/Date of revision : 28/02/2024 Date of previous issue : No previous validation Version : 1 1/41

TEKNOCOAT 1681-11 Label No :51716

SECTION 2: Hazards identification

Hazardous ingredients

: Contains: n-Butyl acetate

Supplemental label

: Contains Formaldehyde. May produce an allergic reaction.

elements

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	Туре
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]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≥10 - ≤18	Aquatic Chronic 4, H413	-	[1]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≤5	Aquatic Chronic 4, H413	-	[1]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Formaldehyde	REACH #: 01-2119488953-20	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311	ATE [Oral] = 100 mg/kg	[1] [2]

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 12/41TEKNOCOAT 1681-11Label No :51716

SECTION 3: Composition/information on ingredients							
EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 Sin Irrit. 2, H315: $5\% \le C < 25\%$ Eye Dam. 1, H318: $C \ge 25\%$ 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

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.

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.

Date of issue/Date of revision : 28/02/2024 Date of previous issue Version :1 3/41 : No previous validation TEKNOCOAT 1681-11 **Label No: 51716**

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : 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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

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, CO₂, 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 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Date of issue/Date of revision · 28/02/2024 4/41 Date of previous issue : No previous validation Version :1 **Label No: 51716**

TEKNOCOAT 1681-11

SECTION 6: Accidental release measures

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 noncombustible, 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 criteria

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

Date of issue/Date of revision : 28/02/2024 Version :1 5/41 Date of previous issue : No previous validation TEKNOCOAT 1681-11 **Label No: 51716**

SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)] CEIL: 480 mg/m³ 15 minutes. CEIL: 100 ppm 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
Ethanol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. CEIL: 2000 ppm, 3 times per shift, 60 minutes. CEIL: 3800 mg/m³, 3 times per shift, 60 minutes.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. PEAK: 2000 mg/m³, 4 times per shift, 15 minutes.
1-Methoxy 2-propanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 187 mg/m³ 8 hours. CEIL: 50 ppm CEIL: 187 mg/m³
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 190 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 380 mg/m³, 4 times per shift, 15 minutes.
Formaldehyde	Regulation on Limit Values - MAC (Austria, 4/2021). Skin sensitiser. TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. CEIL: 0.6 ppm 15 minutes. CEIL: 0.74 mg/m³ 15 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
Ethanol	Limit values (Belgium, 5/2021). TWA: 1000 ppm 8 hours. TWA: 1907 mg/m³ 8 hours.
Propan-2-ol	Limit values (Belgium, 5/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m³ 15 minutes.
1-Methoxy 2-propanol	Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 50 ppm 8 hours.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 16/41TEKNOCOAT 1681-11Label No :51716

Toluene

Toluene

Formaldehyde

Formaldehyde

TWA: 184 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 369 mg/m³ 15 minutes.

Limit values (Belgium, 5/2021). Absorbed through skin.

TWA: 20 ppm 8 hours. TWA: 77 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Limit values (Belgium, 5/2021).

Limit value - M: 0.3 ppm Limit value - M: 0.38 mg/m³

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/m³ 8 hours. Limit value 15 min: 723 mg/m³ 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/m³ 8 hours.

Propan-2-ol Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

Limit value 8 hours: 980 mg/m³ 8 hours.

Limit value 5 hours. 960 mg/m² 5 hours.

Limit value 15 min: 1225 mg/m³ 15 minutes.

1-Methoxy 2-propanol 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: 375 mg/m³ 8 hours. Limit value 15 min: 568 mg/m³ 15 minutes. Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 100 ppm 8 hours.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.

Limit value 15 min: 384 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 8 hours. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.

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/m³ 8 hours. Form: For the

healthcare, funeral and embalming sectors
Limit value 15 min: 0.74 mg/m³ 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/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours.

Ethanol Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). ELV: 1900 mg/m³ 8 hours. ELV: 1000 ppm 8 hours.

Propan-2-ol Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021).

STELV: 1250 mg/m³ 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m³ 8 hours.

Date of issue/Date of revision : 28/02/2024 Date of previous issue : No previous validation Version : 1 7/41

TEKNOCOAT 1681-11 Label No :51716

1-Methoxy 2-propanol ELV: 400 ppm 8 hours.

Ministry of Economy, L

1-Methoxy 2-propanol

Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021).

STELV: 568 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 375 mg/m³ 8 hours. ELV: 100 ppm 8 hours.

Toluene Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). Absorbed through skin.

STELV: 384 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 mg/m³ 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/m³ 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/m³ 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/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours.

TWA 204 pm 6 nours.

Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.

STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours.

Toluene Department of labour inspection (Cyprus, 7/2021). Absorbed

through skin.

STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.

Formaldehyde EU OEL (Europe, 10/2019). Skin sensitiser.

STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.62 ppm 8 hours. TWA: 0.5 mg/m³ 8 hours.

n-Butyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022).

TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 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/m³ 8 hours. TWA: 522 ppm 8 hours. STEL: 3000 mg/m³ 15 minutes. STEL: 1566 ppm 15 minutes.

Propan-2-ol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022). Absorbed through skin.

TWA: 500 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1000 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.

1-Methoxy 2-propanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 10/2022). Absorbed through skin.

TWA: 270 mg/m³ 8 hours.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 18/41TEKNOCOAT 1681-11Label No :51716

n-Butyl acetate

Ethanol

Propan-2-ol

Toluene

Formaldehyde

1-Methoxy 2-propanol

TWA: 72.09 ppm 8 hours.

STEL: 550 mg/m³ 15 minutes.

STEL: 146.85 ppm 15 minutes.

Government regulation of Czer

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.

TWA: 192 mg/m³ 8 hours. TWA: 50.112 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100.224 ppm 15 minutes.

Formaldehyde

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [formaldehyd] Skin sensitiser.

TWA: 0.5 mg/m³ 8 hours. Form: for health services, funeral services and embalming services

services and embalming services
STEL: 0.74 mg/m³ 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/m³ 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/m³ 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

Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers]

TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. STEL: 3800 mg/m³ 15 minutes. STEL: 2000 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). Absorbed through skin.

TWA: 200 ppm 8 hours. TWA: 490 mg/m³ 8 hours. STEL: 980 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). [1-methoxy-2-propanol] Absorbed through skin.

TWA: 50 ppm 8 hours. TWA: 185 mg/m³ 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). Absorbed through skin.

TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). Skin

sensitiser. Carcinogen.
TWA: 0.37 mg/m³ 8 hours.
TWA: 0.3 ppm 8 hours.
STEL: 0.74 mg/m³ 15 minutes.
STEL: 0.6 ppm 15 minutes.

Date of issue/Date of revision : 28/02/2024 Date of previous issue : No previous validation Version : 1

TEKNOCOAT 1681-11 Label No :51716

Occupational exposure limits, Regulation No. 293 (Estonia, n-Butyl acetate 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 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/m³ 15 minutes. STEL: 1000 ppm 15 minutes. Propan-2-ol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 350 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, 1-Methoxy 2-propanol 12/2022). Absorbed through skin. Skin sensitiser. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Toluene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Formaldehyde Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Skin sensitiser. TWA: 0.5 ppm 8 hours. Form: In the healthcare, funeral and embalming sector TWA: 0.62 mg/m³ 8 hours. Form: In the healthcare, funeral and embalming sector TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 0.6 ppm 5 minutes. STEL: 0.74 mg/m³ 5 minutes. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative 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 1-Methoxy 2-propanol of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list Toluene of indicative occupational exposure limit values TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Formaldehyde EU OEL (Europe, 10/2019). Skin sensitiser. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.62 ppm 8 hours. TWA: 0.5 mg/m³ 8 hours.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 110/41TEKNOCOAT 1681-11Label No :51716

Institute of Occupational Health, Ministry of Social Affairs n-Butvl acetate (Finland, 10/2021). TWA: 150 ppm 8 hours. TWA: 720 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m3 15 minutes. Institute of Occupational Health, Ministry of Social Affairs Ethanol (Finland, 10/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. STEL: 1300 ppm 15 minutes. STEL: 2500 mg/m3 15 minutes. Propan-2-ol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 620 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs 1-Methoxy 2-propanol (Finland, 10/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 370 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs Toluene (Finland, 10/2021). Absorbed through skin. Ototoxicant. TWA: 25 ppm 8 hours. TWA: 81 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 380 mg/m3 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/m³ 8 hours. STEL: 0.74 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes. Ministry of Labor (France, 10/2022). Notes: Binding regulatory n-Butyl acetate limit values (article R. 4412-149 of the Labor Code) TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Ethanol Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. STEL: 5000 ppm 15 minutes. STEL: 9500 mg/m³ 15 minutes. Ministry of Labor (France, 10/2022). Notes: Permissible limit Propan-2-ol values (circulars) STEL: 400 ppm 15 minutes. STEL: 980 mg/m3 15 minutes. Ministry of Labor (France, 10/2022). Absorbed through skin. 1-Methoxy 2-propanol Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 50 ppm 8 hours. TWA: 188 mg/m³ 8 hours. STEL: 375 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Toluene Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 111/41TEKNOCOAT 1681-11Label No :51716

TWA: 20 ppm 8 hours. TWA: 76.8 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Formaldehyde Ministry of Labor (France, 10/2022). Skin sensitiser. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) 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/m³ 8 hours. Form: the healthcare, funeral directors and embalming sectors STEL: 0.74 mg/m³ 15 minutes. TWA: 0.37 mg/m³ 8 hours. n-Butyl acetate DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 480 mg/m³ 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes. Ethanol TRGS 900 OEL (Germany, 6/2022). TWA: 380 mg/m³ 8 hours. PEAK: 1520 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 800 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 200 ppm 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. TWA: 380 mg/m³ 8 hours. PEAK: 1520 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). Propan-2-ol TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 400 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 200 ppm 8 hours. PEAK: 400 ppm, 4 times per shift, 15 minutes. TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³, 4 times per shift, 15 minutes. 1-Methoxy 2-propanol TRGS 900 OEL (Germany, 6/2022). TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 200 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³, 4 times per shift, 15 minutes. Toluene TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through

Date of issue/Date of revision : 28/02/2024 Date of previous issue : No previous validation 12/41 Version : 1 **Label No: 51716**

TWA: 50 ppm 8 hours.

TWA: 190 mg/m³ 8 hours.

PEAK: 100 ppm, 4 times per shift, 15 minutes.

skin.

TEKNOCOAT 1681-11

PEAK: 380 mg/m³, 4 times per shift, 15 minutes. Formaldehyde DFG MAC-values list (Germany, 7/2022). Skin sensitiser. TWA: 0.3 ppm 8 hours. CEIL: 1 ml/m3 TWA: 0.37 mg/m³ 8 hours. CEIL: 1.2 mg/m³ PEAK: 0.74 mg/m³, 4 times per shift, 15 minutes. PEAK: 0.6 ppm, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. PEAK: 0.6 ppm 15 minutes. PEAK: 0.74 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit n-Butyl acetate values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Ethanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. Propan-2-ol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 400 ppm 8 hours. TWA: 980 mg/m³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m3 15 minutes. 1-Methoxy 2-propanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 360 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 1080 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Toluene values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 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/m³ 15 minutes. TWA: 0.5 mg/m³ 8 hours. Form: sectors of health care, funerals and embalming 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. n-Butyl acetate Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 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/m³ 8 hours. PEAK: 3800 mg/m³ 15 minutes. PEAK: 2000 ppm 15 minutes. TWA: 1000 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed Propan-2-ol through skin. Skin sensitiser. Inhalation sensitiser. TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³ 15 minutes.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 113/41TEKNOCOAT 1681-11Label No :51716

PEAK: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. 1-Methoxy 2-propanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. TWA: 375 mg/m³ 8 hours. PEAK: 568 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. Toluene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 192 mg/m³ 8 hours. PEAK: 384 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/m³ 15 minutes. Form: in the healthcare sector, funerals and embalming TWA: 0.6 mg/m³ 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/m³ 8 hours. PEAK: 0.74 mg/m³ 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/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Ethanol Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 1900 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). 1-Methoxy 2-propanol Absorbed through skin. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 185 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Toluene Absorbed through skin. STEL: 188 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 94 mg/m³ 8 hours. TWA: 25 ppm 8 hours. Formaldehyde Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 0.74 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes. TWA: 0.37 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational n-Butyl acetate **Exposure Limit Values** OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m3 15 minutes.

Date of issue/Date of revision Date of previous issue : No previous validation 14/41 : 28/02/2024 Version: 1 **Label No: 51716**

Exposure Limit Values (OELVs) OELV-15min: 1000 ppm 15 minutes.

NAOSH (Ireland, 5/2021). Notes: Advisory Occupational

TEKNOCOAT 1681-11

Ethanol

NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Propan-2-ol Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. 1-Methoxy 2-propanol NAOSH (Ireland, 5/2021). Notes: EU derived Occupational **Exposure Limit Values** OELV-8hr: 100 ppm 8 hours. OELV-8hr: 375 mg/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 568 mg/m³ 15 minutes. Toluene NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 192 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 384 mg/m³ 15 minutes. NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU Formaldehyde derived Occupational Exposure Limit Values OELV-8hr: 0.3 ppm 8 hours. OELV-15min: 0.6 ppm 15 minutes. OELV-15min: 0.738 mg/m3 15 minutes. OELV-8hr: 0.37 mg/m³ 8 hours. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative 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. 1-Methoxy 2-propanol Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 100 ppm 8 hours. 8 hours: 375 mg/m³ 8 hours. Short Term: 150 ppm 15 minutes. Short Term: 568 mg/m³ 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from Toluene chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 192 mg/m³ 8 hours. Formaldehyde EU OEL (Europe, 10/2019). Skin sensitiser. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. TWA: 0.62 ppm 8 hours. TWA: 0.5 mg/m³ 8 hours. n-Butyl acetate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. Ethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 1000 mg/m³ 8 hours. Propan-2-ol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 350 mg/m³ 8 hours. STEL: 600 mg/m³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). 1-Methoxy 2-propanol Absorbed through skin. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. Toluene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 50 mg/m³ 8 hours.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 115/41TEKNOCOAT 1681-11Label No :51716

STEL: 150 mg/m³ 15 minutes.
TWA: 14 ppm 8 hours.
STEL: 40 ppm 15 minutes.

Formaldehyde 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.

n-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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.

Propan-2-ol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

TWA: 350 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes.

1-Methoxy 2-propanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

Absorbed through skin.
TWA: 190 mg/m³ 8 hours.
TWA: 50 ppm 8 hours.
STEL: 300 mg/m³ 15 minutes.
STEL: 75 ppm 15 minutes.

Toluene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

Absorbed through skin.
TWA: 192 mg/m³ 8 hours.
TWA: 50 ppm 8 hours.
STEL: 384 mg/m³ 15 minutes.
STEL: 100 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.

n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (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.

1-Methoxy 2-propanol Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). Absorbed through skin.

TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes.

Toluene Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). Absorbed through skin.

STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.

Formaldehyde

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 116/41TEKNOCOAT 1681-11Label No :51716

SECTION 8: Exposure controls/personal protection 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 1-Methoxy 2-propanol of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list Toluene of indicative occupational exposure limit values TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Ministry of Health (Malta, 1/2021). Skin sensitiser. Formaldehyde TWA: 0.5 ppm 8 hours. TWA: 0.62 mg/m³ 8 hours. Ministry of Social Affairs and Employment, Legal limit values n-Butyl acetate (Netherlands, 12/2022). OEL, 8-h TWA: 241 mg/m³ 8 hours. STEL,15-min: 723 mg/m³ 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/m3 8 hours. STEL,15-min: 1900 mg/m³ 15 minutes. STEL,15-min: 1000 ppm 15 minutes. OEL, 8-h TWA: 137 ppm 8 hours. 1-Methoxy 2-propanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 375 mg/m3 8 hours. STEL,15-min: 563 mg/m³ 15 minutes. OEL, 8-h TWA: 100 ppm 8 hours. STEL,15-min: 150 ppm 15 minutes. Toluene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m³ 8 hours. STEL,15-min: 384 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 39 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values Formaldehyde (Netherlands, 12/2022). Skin sensitiser. OEL, 8-h TWA: 0.15 mg/m³ 8 hours. STEL,15-min: 0.5 mg/m³ 15 minutes. STEL,15-min: 0.41 ppm 15 minutes. OEL, 8-h TWA: 0.12 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). n-Butyl acetate STEL: 723 mg/m³ 15 minutes.

TWA: 50 ppm 8 hours. Date of issue/Date of revision 17/41 : 28/02/2024 Date of previous issue : No previous validation Version : 1

STEL: 150 ppm 15 minutes.

TWA: 241 mg/m³ 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative

TEKNOCOAT 1681-11 **Label No: 51716**

limit value

Ethanol FOR-2011-12-06-1358 (Norway, 12/2022).

> TWA: 500 ppm 8 hours. TWA: 950 mg/m³ 8 hours.

Propan-2-ol FOR-2011-12-06-1358 (Norway, 12/2022).

TWA: 100 ppm 8 hours. TWA: 245 mg/m³ 8 hours.

1-Methoxy 2-propanol

FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through

skin. Notes: indicative limit value TWA: 50 ppm 8 hours.

TWA: 180 mg/m³ 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through

skin. Notes: indicative limit value

TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours.

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/m³ 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.

Carcinogen. CEIL: 1 ppm CEIL: 1.2 mg/m³

STEL: 0.74 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes.

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/m³ 8 hours. STEL: 720 mg/m³ 15 minutes.

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/m³ 8 hours.

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.

TWA: 900 mg/m³ 8 hours. STEL: 1200 mg/m³ 15 minutes.

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.

TWA: 180 mg/m³ 8 hours. STEL: 360 mg/m³ 15 minutes.

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.

TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes.

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.

TWA: 0.37 mg/m³ 8 hours.

Toluene

Formaldehyde

n-Butyl acetate

Ethanol

Propan-2-ol

1-Methoxy 2-propanol

Toluene

Formaldehyde

Date of issue/Date of revision 18/41 · 28/02/2024 Date of previous issue : No previous validation Version :1 TEKNOCOAT 1681-11 **Label No: 51716**

n-Butyl acetate

STEL: 0.74 mg/m³ 15 minutes.

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

TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.

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

STEL: 1000 ppm 15 minutes.

Propan-2-ol Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.

1-Methoxy 2-propanol Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

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

through skin.

TWA: 20 ppm 8 hours.

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

sensitiser. CEIL: 0.3 ppm

n-Butyl acetate HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). VLA: 241 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes.

Ethanol HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021).
VLA: 1900 mg/m³ 8 hours.
VLA: 1000 ppm 8 hours.

Short term: 9500 mg/m³ 15 minutes. Short term: 5000 ppm 15 minutes.

Propan-2-ol HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021).
VLA: 200 mg/m³ 8 hours.
VLA: 81 ppm 8 hours.

Short term: 500 mg/m³ 15 minutes. Short term: 203 ppm 15 minutes.

1-Methoxy 2-propanol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.

VLA: 375 mg/m³ 8 hours. VLA: 100 ppm 8 hours.

Short term: 568 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes.

Toluene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.

VLA: 192 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 384 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.

Formaldehyde HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). Skin sensitiser.

Short term: 0.5 mg/m³ 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/m³ 8 hours. VLA: 0.3 ppm 8 hours.

Short term: 0.74 mg/m³ 15 minutes. Short term: 0.6 ppm 15 minutes.

Date of issue/Date of revision : 28/02/2024 Date of previous issue : No previous validation Version : 1 19/41

TEKNOCOAT 1681-11 Label No :51716

Government regulation SR c. 355/2006 (Slovakia, 9/2020). n-Butyl acetate [Butyl acetates] TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m³, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes. Ethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 960 mg/m³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1920 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. Propan-2-ol Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 500 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1000 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). 1-Methoxy 2-propanol Absorbed through skin. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Toluene Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Government regulation SR c. 356/2006 (Slovakia, 9/2020). Skin Formaldehyde Technical guidance value: 0.37 mg/m³ 8 hours. Technical guidance value: 0.3 ppm 8 hours. Regulation on protection of workers from the risks related to n-Butyl acetate exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/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. Propan-2-ol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 500 mg/m³ 8 hours. TWA: 200 ppm 8 hours. KTV: 1000 mg/m³, 4 times per shift, 15 minutes. KTV: 400 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to 1-Methoxy 2-propanol exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 568 mg/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. Toluene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 384 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 Date of issue/Date of revision · 28/02/2024 : No previous validation 20/41 Date of previous issue Version: 1

TEKNOCOAT 1681-11

Label No :51716

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. National institute of occupational safety and health (Spain, n-Butyl acetate TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Ethanol National institute of occupational safety and health (Spain, 4/2022). STEL: 1000 ppm 15 minutes. STEL: 1910 mg/m³ 15 minutes. National institute of occupational safety and health (Spain, Propan-2-ol 4/2022). TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m3 15 minutes. National institute of occupational safety and health (Spain, 1-Methoxy 2-propanol 4/2022). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. Toluene National institute of occupational safety and health (Spain. 4/2022). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. National institute of occupational safety and health (Spain, Formaldehyde 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. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Ethanol Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 500 ppm 8 hours. TWA: 1000 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 1900 mg/m³ 15 minutes. Propan-2-ol Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 150 ppm 8 hours. TWA: 350 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 600 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 1-Methoxy 2-propanol 9/2021). Absorbed through skin. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. TWA: 190 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 121/41TEKNOCOAT 1681-11Label No :51716

Work environment authority Regulation 2018:1 (Sweden, Toluene 9/2021). Absorbed through skin. Ototoxicant. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Formaldehyde 9/2021). Absorbed through skin. Skin sensitiser. TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. n-Butyl acetate SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m3 15 minutes. Ethanol SUVA (Switzerland, 1/2023). TWA: 500 ppm 8 hours. TWA: 960 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 1920 mg/m³ 15 minutes. SUVA (Switzerland, 1/2023). Propan-2-ol TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m³ 15 minutes. SUVA (Switzerland, 1/2023). 1-Methoxy 2-propanol TWA: 100 ppm 8 hours. TWA: 360 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 720 mg/m3 15 minutes. Toluene SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 190 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 760 mg/m3 15 minutes. Formaldehyde SUVA (Switzerland, 1/2023). Skin sensitiser. TWA: 0.3 ppm 8 hours. TWA: 0.37 mg/m³ 8 hours. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m³ 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). n-Butyl acetate STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours. Ethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m³ 8 hours. Propan-2-ol EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1250 mg/m3 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m³ 8 hours. TWA: 400 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 1-Methoxy 2-propanol through skin. STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **Xylene** EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m³ 15 minutes.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 122/41TEKNOCOAT 1681-11Label No :51716

TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. Toluene EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Butanone through skin. STEL: 899 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m³ 8 hours. TWA: 200 ppm 8 hours. Formaldehyde EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2.5 mg/m³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Ethylbenzene through skin. STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices	
Toluene	Exposure indices VGU BEI (Austria, 9/2020) BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /μl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling	
	time: one year.	
No exposure indices known.		
Toluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: after the end of the exposure or the end of the work shift.	
Propan-2-ol	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. BEI: 0.86 μmol/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 0.86 μmol/l, acetone [in blood]. Sampling time: at the end of the work shift.	

Date of issue/Date of revision : 28/02/2024 Date of previous issue Version :1 23/41 : No previous validation **Label No :51716**

TEKNOCOAT 1681-11

Toluene

Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift.

BEI: 10.85 µmol/l, toluene [in blood]. Sampling time: at the end of the work shift.

BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

No exposure indices known.

Toluene

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

No exposure indices known.

No exposure indices known.

No exposure indices known.

Toluene

No exposure indices known.

Propan-2-ol

Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)

BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.

DFG BEI-values list (Germany, 7/2022)

BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2022)

BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

1-Methoxy 2-propanol

Date of issue/Date of revision

DFG BEI-values list (Germany, 7/2022)

BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2022)

BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end of exposure or end of shift.

Toluene

percutaneous absorption (see p. 211 and p. 228). BEI: 600 μg/l, toluene [in blood]. Sampling time: immediately after

: No previous validation

Version :1

24/41

DFG BEI-values list (Germany, 7/2022) Notes: danger from

Date of previous issue TEKNOCOAT 1681-11 **Label No :51716**

· 28/02/2024

exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.

BEI: 75 μ g/I, toluene [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2022)

BEI: 600 μg/l, toluene [in whole blood]. Sampling time: immediately after exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.

No exposure indices known.

Propan-2-ol

Toluene

No exposure indices known.

Propan-2-ol

Toluene

No exposure indices known.

Toluene

No exposure indices known.

Propan-2-ol

Toluene

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)

BEI: 430 µmol/l, acetone [in urine]. Sampling time: at the end of the shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the shift.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

BEI: 1 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

NAOSH (Ireland, 1/2011)

BMGV: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.

NAOSH (Ireland, 1/2011)

BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018)

BEI: 0.05 mg/l, toluene [in blood].

BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at the end of the workweek.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.

BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 125/41TEKNOCOAT 1681-11Label No :51716

HG 1218/2006, Annex 2, with subsequent modifications and Propan-2-ol additions (Romania, 3/2020) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift. HG 1218/2006, Annex 2, with subsequent modifications and Toluene additions (Romania, 3/2020) OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift. Toluene Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 1010 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.08 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.3 µmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. Regulation on protection of workers from the risks related to Propan-2-ol exposure to chemical substances at work (Slovenia, 5/2021) BAT: 25 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BAT: 25 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. 1-Methoxy 2-propanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift. Toluene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays. BAT: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift. National institute of occupational safety and health (Spain, Propan-2-ol VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek. Toluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 126/41TEKNOCOAT 1681-11Label No :51716

VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.

VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.

No exposure indices known.

Propan-2-ol

SUVA (Switzerland, 1/2023)

BEI: 0.4 mmol/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 25 mg/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 0.4 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 25 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

1-Methoxy 2-propanol

SUVA (Switzerland, 1/2023)

BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 221.9 µmol/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.

Toluene

SUVA (Switzerland, 1/2023)

BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of longterm exposure: after more than one shift.

BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.

Xylene

EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers]

BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

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

Date of issue/Date of revision : 28/02/2024 Version :1 27/41 Date of previous issue : No previous validation TEKNOCOAT 1681-11 **Label No: 51716**

	Type	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
	5		bw/day	population	
	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 ³		Local
	DNEL	Short term Inhalation	300 mg/m ³	population General	Local
	DNEL	Short term Inhalation	300 mg/m ³	population General population	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	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/m³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
Ethanol	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m ³	General population	Local
	DNEL	Long term Inhalation	950 mg/m³	Workers	Systemic
Draway 2 al	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
Propan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation Long term Dermal	89 mg/m ³ 319 mg/kg	General population General	Systemic Systemic
	DNEL	Long term	bw/day 500 mg/m ³	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	888 mg/kg	Workers	Systemic
1-Methoxy 2-propanol	DNEL	Long term Oral	bw/day 33 mg/kg	General	Systemic
suion, E propulior	DNEL	Long term	bw/day 43.9 mg/m ³	population General	Systemic
	DNEL	Inhalation Long term Dermal	78 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 183 mg/kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Local

Date of issue/Date of revision TEKNOCOAT 1681-11

: 28/02/2024 Date of previous issue

: No previous validation

Version :1 28/41

Label No :51716

<u> </u>	DNEL	Short term	553.5 mg/	Workers	Systemic
	5.122	Inhalation	m³	TT GINGIO	Cycloniic
Toluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	56.5 mg/m ³		Local
	DATE	Inhalation	50 5 ··· · · / · · 3	population	0
	DNEL	Long term	56.5 mg/m ³		Systemic
	DNEL	Inhalation Long term	192 mg/m³	population Workers	Local
	DINEL	Inhalation	192 1119/111	WOIKEIS	Lucai
	DNEL	Long term	192 mg/m³	Workers	Systemic
	DIVLE	Inhalation	102 1119/111	WORKOIS	O yotomio
	DNEL	Long term Dermal	226 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m ³	General	Systemic
	DATE	Inhalation	004 "	population	
	DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
	DNEL	Short term	bw/day 384 mg/m³	Workers	Local
	DINLL	Inhalation	304 mg/m	WOIKEIS	Local
	DNEL	Short term	384 mg/m³	Workers	Systemic
		Inhalation	g		-,
Formaldehyde	DNEL	Long term	0.375 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	0.75 mg/m ³	Workers	Local
	DATE	Inhalation	40 / 3		
	DNEL	Long term Dermal	12 µg/cm²	General	Local
	DNEL	Long term Dermal	37 µg/cm²	population Workers	Local
	DNEL	Long term	0.1 mg/m ³	General	Local
	DIVLE	Inhalation	0.11119/111	population	Local
	DNEL	Long term	3.2 mg/m ³	General	Systemic
		Inhalation	J	population	
	DNEL	Long term Oral	4.1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	9 mg/m³	Workers	Systemic
	חאבי	Inhalation	102 ma/ka	Conoral	Systemic
	DNEL	Long term Dermal	102 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	240 mg/kg	Workers	Systemic
	DIVLL	Long tomi Domia	bw/day	TT OIROID	0,0001110

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.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 129/41TEKNOCOAT 1681-11Label No :51716

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.

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 : Colourless.

Odour : Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

Ingredient name

boiling range

Ethanol Propan-2-ol

ပ္	°F	Method
78.29	172.9	
0.2	191 /	

Flammability : Not available.

Lower and upper explosion | Lower: 1.4% | Upper: 19%

Flash point : Closed cup: 13°C (55.4°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
1-Methoxy 2-propanol	270	518	
n-Butyl acetate	415	779	EU A.15

Decomposition temperature : Not available.pH : Not applicable.

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 130/41TEKNOCOAT 1681-11Label No :51716

SECTION 9: Physical and chemical properties

Viscosity : Not available.

Solubility(ies)

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Va	Vapour Pressure at 20°C			apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethanol	42.94865	5.7				
Propan-2-ol	33.00268	4.4				

Relative density : Not available.

Density : 0.9 g/cm³

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

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid : 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.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	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	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Urea-formaldehyde-polymer	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
1-Methoxy 2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 131/41TEKNOCOAT 1681-11Label No :51716

SECTION 11: Toxicological information

Route

	LD50 Oral	Rat	636 mg/kg	-
Formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
-	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

: Based on available data, the classification criteria are not met.

Conclusion/Summary Acute toxicity estimates

ATE value

Not available.

Irritation/Corrosion

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	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eves Mederate irritant	Dobbit		mg	
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	_	100 uL	_
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Urea-formaldehyde-polymer	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
D O . I	Frank Markanta Sustant	D. I.I.Y		uL	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg 24 hours 100	-
	Eyes - Moderate irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	_	mg 100 mg	_
	Skin - Mild irritant	Rabbit	-	500 mg	_
1-Methoxy 2-propanol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
		1		mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Ckin Mild irritant	Dia		mg 24 hours 250	
	Skin - Mild irritant	Pig	-	uL	-
	Skin - Mild irritant	Rabbit	1_	435 mg	_
	Skin - Moderate irritant	Rabbit	_	24 hours 20	_
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Formaldehyde	Eyes - Mild irritant	Human	-	6 minutes 1	-
				ppm	
	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
	Free Corres imited	Dabbit		ug	
	Eyes - Severe irritant Skin - Mild irritant	Rabbit	-	750 ug 72 hours 150	-
	Skiii - Wiiid IITitarit	Human	-	ug I	-
	Skin - Mild irritant	Rabbit	1_	540 mg	_
	Skin - Moderate 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 Sensitisation

: Based on available data, the classification criteria are not met.

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

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion:132/41TEKNOCOAT 1681-11Label No :51716

SECTION 11: Toxicological information

Mutagenicity

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

Carcinogenicity

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 Propan-2-ol 1-Methoxy 2-propanol Toluene Formaldehyde	Category 3 Category 3 Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result
Toluene	ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

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 or irritation watering redness

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

 Date of issue/Date of revision
 : 28/02/2024
 Date of previous issue
 : No previous validation
 Version
 : 1
 33/41

TEKNOCOAT 1681-11 Label No :51716

SECTION 11: Toxicological information

Long term exposure

Potential immediate : Not available.

effects

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 - Artemia salina	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	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 - <i>Daphnia magna</i>	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia	48 hours
		franciscana - Larvae	
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - <i>Ulva pertusa</i>	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
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200000 µg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus	48 hours
		pseudolimnaeus - Adult	
	Acute EC50 5.56 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
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

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 134/41TEKNOCOAT 1681-11Label No :51716

SECTION 12: Ecological information

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	2.3	-	Low
Ethanol	-0.35	-	Low
Propan-2-ol	0.05	-	Low
1-Methoxy 2-propanol	<1	-	Low
Toluene	2.73	90	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.

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.

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.

Date of issue/Date of revision : 28/02/2024 Date of previous issue Version :1 35/41 : No previous validation **Label No: 51716**

TEKNOCOAT 1681-11

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, Isopropyl alcohol)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethanol)	FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, 1-methoxy- 2-propanol)	FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, 1-methoxy- 2-propanol)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

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)

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

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 1681-11	≥90	3
Toluene	<1	48
Formaldehyde	<0.1	72

Labelling

Other EU regulations

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 136/41TEKNOCOAT 1681-11Label No :51716

SECTION 15: Regulatory information

: Not listed **Industrial emissions** (integrated pollution

prevention and control) -

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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 I

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

Czech Republic

Storage code : 1

Denmark

Danish fire class : I-1 **Executive Order No. 1795/2015**

Ingredient name	Annex I Section A	Annex I Section B
Propan-2-ol	Listed	-

MAL-code : 3-1

Protection based on MAL

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

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

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

Date of issue/Date of revision : 28/02/2024 Date of previous issue Version :1 37/41 : No previous validation **Label No: 51716**

TEKNOCOAT 1681-11

SECTION 15: Regulatory information

MAL-code: 3-1

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

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

- Air-supplied full mask and arm protectors must be worn.

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

- Air-supplied full mask must be worn.

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

- Air-supplied full mask, 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

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 : n-Butyl acetate
Ethanol
Propan-2-ol
1-Methoxy 2-propanol
RG 84
RG 84
RG 84

Toluene RG 4bis, RG 84

Formaldehyde RG 43, RG 43bis, RG 84

Reinforced medical

surveillance

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

<u>Germany</u>

Storage class (TRGS 510) : 3 Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Date of issue/Date of revision: 28/02/2024Date of previous issue: No previous validationVersion: 138/41TEKNOCOAT 1681-11Label No :51716

SECTION 15: Regulatory information

Category	Reference number
P5c	1.2.5.3

Hazard class for water 2

Technical instruction on air quality control

: TA-Luft Number 5.2.5: 75.5% TA-Luft Class I - Number 5.2.5: 0.4%

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

Netherlands

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

Ingredient name	Carcinogen		Reproductive toxicity - Fertility		Harmful via breastfeeding
ethanol	Listed	-	Fertility 1A	Development 1A	Listed
xylene	-	-	-	Development 2	-
tolueen	-	-	-	Development 2	-

Water Discharge Policy

(ABM)

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

Norway Sweden

Flammable liquid class : 1

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 54.4%

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.

1272/20081

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

Date of issue/Date of revision : 28/02/2024 Date of previous issue Version:1 39/41 : No previous validation **Label No: 51716**

TEKNOCOAT 1681-11

SECTION 16: Other information

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
Eye Irrit. 2, H319	On basis of test data Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
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
Repr. 2	REPRODUCTIVE TOXICITY - 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 RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of

revision

: 28/02/2024

Date of previous issue : No previous validation

: 1 **Version**

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.

Date of issue/Date of revision : 28/02/2024 Version :1 40/41 Date of previous issue : No previous validation **Label No :51716**

TEKNOCOAT 1681-11

Date of issue/Date of revision : 28/02/2024 Date of previous issue : No previous validation Version :1 41/41 TEKNOCOAT 1681-11 **Label No** :51716