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

SAFETY DATA SHEET



AC TAUCHLACK 4310-30

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

1.1 Product identifier Product name

: AC TAUCHLACK 4310-30

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373

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 Hazard statements

: Danger

- : H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

SECTION 2: Hazards identification

SECTION 2: Hazarus	IC	
Prevention	:	 P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
Response	1	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: Toluene; Ethyl acetate and iso-butanol
Supplemental label elements	1	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥25 - ≤50	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]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0	≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318	-	[1]
Date of issue/Date of revision	: 28/02/2024 Date	e of previous is	sue : No previous vali	dation Version : 1	2/37
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SECTION 3: Composition/information on ingredients				
	CAS: 78-83-1 Index: 603-108-00-1	STOT SE 3, H335 STOT SE 3, H336 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. <u>Type</u>

[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	-	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	:	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

Eye contact	: Adverse symptoms may include the following: pain watering redness

SECTION 4: First aid measures

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	from	I 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
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, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds

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

7.3 Specific end use(s)

: Not available.

Recommendations 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
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).
-	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	PEAK: 1468 mg/m ³ , 4 times per shift, 15 minutes.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
-	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m ³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 800 ppm, 4 times per shift, 15 minutes.
	PEAK: 2000 mg/m ³ , 4 times per shift, 15 minutes.
so-butanol	Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol
	(all isomers except 2-methyl-2-propanol)]
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 150 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	PEAK: 600 mg/m ³ , 4 times per shift, 15 minutes.
Toluene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 77 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Ethyl acetate	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours.
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	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
	STEL: 712 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
ropan-2-ol	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1000 mg/m ³ 15 minutes.
so-butanol	Limit values (Belgium, 5/2021).
	TWA: 50 ppm 8 hours.
	TWA: 154 mg/m ³ 8 hours.
oluene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbe
	through skin.
	Limit value 15 min: 384 mg/m ³ 15 minutes.
	Limit value 8 hours: 192 mg/m ³ 8 hours.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
thyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 734 mg/m ³ 8 hours.
	Limit value 15 min: 400 ppm 15 minutes.
	Limit value 15 min: 1468 mg/m ³ 15 minutes.
	Limit value 8 hours: 200 ppm 8 hours.
-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/m ³ 8 hours.
	Limit value 15 min: 723 mg/m ³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Propan-2-ol	Ministry of Labour and Social Policy and the Ministry of
1	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 980 mg/m ³ 8 hours.
	Limit value 15 min: 1225 mg/m ³ 15 minutes.
Castor oil	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [oil (by
	benzene)]
	Limit value 8 hours: 10 mg/m ³ , (by benzene) 8 hours.
oluene	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). Absorbed through skin.
	STELV: 384 mg/m ³ 15 minutes.
	STELV: 100 ppm 15 minutes.
	ELV: 192 mg/m ³ 8 hours.
	ELV: 50 ppm 8 hours.
thyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 400 ppm 15 minutes.
	ELV: 200 ppm 8 hours.
	STELV: 1468 mg/m ³ 15 minutes.
	ELV: 734 mg/m ³ 8 hours.
-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 723 mg/m ³ 15 minutes.
	STELV: 150 ppm 15 minutes.
	ELV: 241 mg/m ³ 8 hours.
	ELV: 50 ppm 8 hours.
Propan-2-ol	MINISTRY OF ECONOMY, Labour and Entrepreneurship FLV/
Propan-2-ol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).
ropan-2-ol	STELV (Croatia, 1/2021). STELV: 1250 mg/m ³ 15 minutes.

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ECTION 8: Exposure c	· · · ·
	STELV: 500 ppm 15 minutes.
	ELV: 999 mg/m ³ 8 hours. ELV: 400 ppm 8 hours.
so-butanol	Ministry of Economy, Labour and Entrepreneurship ELV/
SO-DUIANOI	STELV (Croatia, 1/2021). Absorbed through skin.
	STELV (Croatia, 1/2021). Absorbed through skin. STELV: 231 mg/m ³ 15 minutes.
	STELV: 231 mg/m 15 minutes.
	ELV: 154 mg/m ³ 8 hours.
	ELV: 50 ppm 8 hours.
oluene	Department of labour inspection (Cyprus, 7/2021). Absorbed
	through skin. STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
thyl acetate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
Butyl acetate	Department of labour inspection (Cyprus, 7/2021).
-	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
oluene	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50.112 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100.224 ppm 15 minutes.
thyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
,	Republic, 10/2022).
	TWA: 700 mg/m ³ 8 hours.
	TWA: 191.1 ppm 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 245.7 ppm 15 minutes.
-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czec
-	Republic, 10/2022).
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 149.661 ppm 15 minutes.
	TWA: 49.887 ppm 8 hours.
ropan-2-ol	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). Absorbed through skin.
	TWA: 500 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1000 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
o-butanol	Government regulation of Czech Republic PEL/NPK-P (Czec
	Republic, 10/2022). [Butanol (all isomers)] Absorbed through
	skin.
	TWA: 300 mg/m ³ 8 hours.
	TWA: 97.5 ppm 8 hours.
	STEL: 600 mg/m ³ 15 minutes.
	STEL: 195 ppm 15 minutes.
oluene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m ³ 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
thyl acetate	Working Environment Authority (Denmark, 6/2022).
,	TWA: 150 ppm 8 hours.

	TWA: 540 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl
	acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours. STEL: 723 mg/m ³ 15 minutes.
	STEL: 125 mg/m 15 minutes.
Propan-2-ol	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 200 ppm 8 hours.
	TWA: 490 mg/m ³ 8 hours.
	STEL: 980 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
so-butanol	Working Environment Authority (Denmark, 6/2022). [Butanol,
	all isomers] Absorbed through skin.
	CEIL: 50 ppm
	CEIL: 150 mg/m ³
Toluene	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes.
	STEL: 364 mg/m² 15 minutes.
Ethyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	TWA: 500 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	STEL: 1100 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
n-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
Propan-2-ol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).
	TWA: 350 mg/m ³ 8 hours.
	TWA: 350 mg/m 8 hours.
	STEL: 600 mg/m ³ 15 minutes.
	STEL: 250 ppm 15 minutes.
so-butanol	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	TWA: 150 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Foluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours. TWA: 734 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/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.

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	TWA: 50 ppm 8 hours.
Toluene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin. Ototoxicant.
	TWA: 25 ppm 8 hours.
	TWA: 81 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 380 mg/m ³ 15 minutes.
Ethyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 200 ppm 8 hours.
	TWA: 730 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1470 mg/m ³ 15 minutes.
n-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 960 mg/m ³ 15 minutes.
Propan-2-ol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 620 mg/m ³ 15 minutes.
iso-butanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Butanols] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 230 mg/m ³ 15 minutes.
Castor oil	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [oil mist]
	TWA: 5 mg/m³ 8 hours. Form: Mist
Toluene	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 76.8 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Ethyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
n-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Propan-2-ol	Ministry of Labor (France, 10/2022). Notes: Permissible limit
	values (circulars)
	STEL: 400 ppm 15 minutes.
	STEL: 980 mg/m ³ 15 minutes.
iso-butanol	Ministry of Labor (France, 10/2022). Notes: Permissible limit
	values (circulars)
	TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 150 mg/m ³ 8 hours.

Frequencies TWX: 190 mg/m ² 8 hours. PEAX: 380 ppm 15 minutes. TWX: 50 ppm 8 hours. PEAX: 100 pm 15 minutes. TWX: 50 ppm 8 hours. PEAX: 100 pm, 4 times per shift, 15 minutes. TWX: 190 mg/m ² 8 hours. PEAX: 100 pm, 4 times per shift, 15 minutes. TWX: 190 mg/m ² 8 hours. PEAX: 100 pm, 4 times per shift, 15 minutes. TWX: 190 mg/m ² 8 hours. PEAX: 100 pm, 4 times per shift, 15 minutes. TWX: 700 mg/m ² 8 hours. PEAX: 400 ppm 15 minutes. TWX: 200 ppm 8 hours. PEAX: 400 ppm 16 hours. PEAX: 400 ppm 16 hours. PEAX: 400 ppm 4 times per shift, 15 minutes. TWX: 200 ppm 4 hours. PEAX: 400 ppm 4 times per shift, 15 minutes. TWX: 200 ppm 4 hours. PEAX: 400 ppm, 4 times per shift, 15 minutes. TWX: 200 ppm, 4 times per shift, 15 minutes. n-Butyl acetate DFG MAC-values list (Germany, 7/2022). TWX: 200 ppm, 4 times per shift, 15 minutes. TWX: 200 ppm 8 hours. PEAX: 400 ppm, 4 times per shift, 15 minutes. TWX: 200 ppm 8 hours. PEAX: 900 OEL (Germany, 6/2022). TWX: 200 ppm 15 minutes. TWX: 200 ppm 6 hours. PEAX: 400 ppm 15 minutes. TWX: 200 ppm 15 minutes. TWX: 200 ppm 15 minutes. TWX: 200 ppm 15 minutes. TWX: 200 pp			TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
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STEL: 1468 mg/m ³ 15 minutes.			
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n-Butyl acetate	STEL: 400 ppm 15 minutes. Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes.
Propan-2-ol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 400 ppm 8 hours.
	TWA: 980 mg/m ³ 8 hours.
	STEL: 500 ppm 15 minutes.
	STEL: 1225 mg/m ³ 15 minutes.
iso-butanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 300 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 300 mg/m ³ 15 minutes.
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 192 mg/m ³ 8 hours.
	PEAK: 384 mg/m ³ 15 minutes.
	PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Ethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser.
	TWA: 734 mg/m³ 8 hours. PEAK: 1468 mg/m³ 15 minutes.
	PEAK: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
n-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser.
	Inhalation sensitiser.
	TWA: 241 mg/m ³ 8 hours.
	PEAK: 723 mg/m ³ 15 minutes.
	PEAK: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Propan-2-ol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 1000 mg/m ³ 15 minutes.
	PEAK: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
Toluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 188 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 94 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
Ethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	TWA: 540 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
II-Dutyl acetate	[butyl acetate, all isomers]
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
iso-butanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[butanol, all isomers, except n-butanol] Absorbed through
	skin.
	STEL: 150 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
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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/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes. OELV-15min: 384 mg/m ³ 15 minutes.
Ethyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 200 ppm 8 hours.
	OELV-15min: 400 ppm 15 minutes.
	OELV-15min: 1468 mg/m ³ 15 minutes.
	OELV-8hr: 734 mg/m ³ 8 hours.
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m ³ 15 minutes.
Propan-2-ol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 200 ppm 8 hours.
iso-butanol	OELV-15min: 400 ppm 15 minutes. NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
ISO-DUIATION	Exposure Limit Values (OELVs)
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 150 mg/m ³ 8 hours.
	OELV-15min: 75 ppm 15 minutes.
	OELV-15min: 225 mg/m ³ 15 minutes.
Toluene	Legislative Decree No. 819/2008. Title IX. Protection from
loidene	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 192 mg/m ³ 8 hours.
Ethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Short Term: 400 ppm 15 minutes.
	Short Term: 1468 mg/m ³ 15 minutes.
	8 hours: 200 ppm 8 hours.
	8 hours: 734 mg/m ³ 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/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
L	TWA: 50 ppm 8 hours.
Toluene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	Absorbed through skin.
	TWA: 50 mg/m ³ 8 hours.
	STEL: 150 mg/m ³ 15 minutes.
	TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes.
Ethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 200 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 54 ppm 8 hours.
n-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
Propan-2-ol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 350 mg/m ³ 8 hours.
	STEL: 600 mg/m ³ 15 minutes.
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SECTION 8: Exposure controls/personal protection Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). iso-butanol [Butvlalcohol] TWA: 10 mg/m³ 8 hours. 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. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Ethyl acetate TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. CEIL: 1100 mg/m³ CEIL: 300 ppm Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). n-Butyl acetate TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Propan-2-ol TWA: 350 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. iso-butanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 10 mg/m³ 8 hours. Castor oil Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [oil mist and fumel TWA: 1 mg/m³ 8 hours. Form: Mist STEL: 3 mg/m³ 15 minutes. Form: Mist Grand-Duchy Regulation 2016. Chemical agents. Annex I Toluene (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. Ethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. 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. Toluene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 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. Ethyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 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.

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	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Foluene	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 150 mg/m ³ 8 hours.
	STEL,15-min: 384 mg/m ³ 15 minutes. STEL,15-min: 100 ppm 15 minutes.
	OEL, 8-h TWA: 39 ppm 8 hours.
Ethyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	STEL, 15-min: 1468 mg/m ³ 15 minutes.
	OEL, 8-h TWA: 734 mg/m ³ 8 hours.
	STEL,15-min: 400 ppm 15 minutes.
	OEL, 8-h TWA: 200 ppm 8 hours.
n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 241 mg/m ³ 8 hours.
	STEL,15-min: 723 mg/m ³ 15 minutes.
	STEL,15-min: 150 ppm 15 minutes.
	OEL, 8-h TWA: 50 ppm 8 hours.
Foluene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 94 mg/m ³ 8 hours.
Ethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 1468 mg/m ³ 15 minutes.
Putul agatata	STEL: 400 ppm 15 minutes.
n-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Propan-2-ol	FOR-2011-12-06-1358 (Norway, 12/2022).
· · · · · · · · · · · · · · · · · · ·	TWA: 100 ppm 8 hours.
	TWA: 245 mg/m ³ 8 hours.
so-butanol	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
	skin.
	CEIL: 75 mg/m ³
	CEIL: 25 ppm
Foluene	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/m ³ 8 hours.
	STEL: 200 mg/m ³ 15 minutes.
Ethyl acetate	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,
	2/2021).
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
n-Butyl acetate	Regulation of the Minister of Family, Labor and Social Policy
	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland,

STEL: 720 mg/m ³ 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: 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: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes.
Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin.
TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014).
TWA: 400 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours.
STEL: 200 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). TWA: 200 ppm 8 hours.
STEL: 400 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). TWA: 50 ppm 8 hours.
HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m ³ 8 hours. VLA: 50 ppm 8 hours. Short term: 384 mg/m ³ 15 minutes.
Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 734 mg/m ³ 8 hours. VLA: 200 ppm 8 hours.
Short term: 1468 mg/m ³ 15 minutes. Short term: 400 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 241 mg/m ³ 8 hours. VLA: 50 ppm 8 hours.
Short term: 723 mg/m ³ 15 minutes. Short term: 150 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 200 mg/m ³ 8 hours. VLA: 81 ppm 8 hours.
Short term: 500 mg/m ³ 15 minutes. Short term: 203 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 100 mg/m ³ 8 hours. VLA: 33 ppm 8 hours. Short term: 200 mg/m ³ 15 minutes. Short term: 66 ppm 15 minutes.

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Toluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 734 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[Butyl acetates]
	TWA: 241 mg/m ³ , (Butyl acetates) 8 hours.
	TWA: 50 ppm, (Butyl acetates) 8 hours.
	STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes.
	STEL: 150 ppm, (Butyl acetates) 15 minutes.
Propan-2-ol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 500 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1000 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
iso-butanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[Butyl alkohols]
	TWA: 310 mg/m ³ , (Butyl alkohols) 8 hours.
	TWA: 100 ppm, (Butyl alkohols) 8 hours.
T . I	
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/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 384 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
Ethyl acetate	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 734 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 1468 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 400 ppm, 4 times per shift, 15 minutes.
n-Butyl acetate	Regulation on protection of workers from the risks related to
In Bully accide	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 723 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 150 ppm, 4 times per shift, 15 minutes.
Bropan 2 ol	
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/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 1000 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 400 ppm, 4 times per shift, 15 minutes.
iso-butanol	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 310 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	KTV: 310 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 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/m ³ 15 minutes.
Ethyl acetate	National institute of occupational safety and health (Spain,
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	4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
Putul apotato	STEL: 400 ppm 15 minutes.
n-Butyl acetate	National institute of occupational safety and health (Spain, 4/2022).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Propan-2-ol	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1000 mg/m ³ 15 minutes.
so-butanol	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 50 ppm 8 hours. TWA: 154 mg/m ³ 8 hours.
- luces	-
oluene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin. Ototoxicant. TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Ethyl acetate	Work environment authority Regulation 2018:1 (Sweden,
,	9/2021).
	TWA: 150 ppm 8 hours.
	TWA: 550 mg/m ³ 8 hours.
	STEL: 300 ppm 15 minutes.
	STEL: 1100 mg/m ³ 15 minutes.
n-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). [butyl acetate]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
Propan 2 al	STEL: 723 mg/m ³ 15 minutes.
Propan-2-ol	Work environment authority Regulation 2018:1 (Sweden, 9/2021).
	TWA: 150 ppm 8 hours.
	TWA: 350 mg/m ³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 600 mg/m ³ 15 minutes.
so-butanol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 250 mg/m ³ 15 minutes.
Castor oil	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). [oil mist, incl. oil fumes]
	TWA: 1 mg/m ³ 8 hours. Form: mist and fume
	STEL: 3 mg/m ³ 15 minutes. Form: mist and fume
oluene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 760 mg/m ³ 15 minutes.
Ethyl acetate	SUVA (Switzerland, 1/2023).
	STEL: 400 ppm 15 minutes.
	STEL: 1460 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.

	TM/A, 720 mg/m ³ 9 hours
n-Butyl acetate	TWA: 730 mg/m³ 8 hours. SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 720 mg/m ³ 15 minutes.
Propan-2-ol	SUVA (Switzerland, 1/2023).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1000 mg/m ³ 15 minutes.
iso-butanol	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 150 mg/m ³ 15 minutes.
Castor oil	SUVA (Switzerland, 1/2023). [triglycerides]
	STEL: 20 mg/m ³ 15 minutes. Form: Inhalable fraction
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 191 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 734 mg/m ³ 8 hours.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
Propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 1250 mg/m ³ 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 999 mg/m ³ 8 hours.
	TWA: 400 ppm 8 hours.
iso-butanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m ³ 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m ³ 8 hours.
X I	TWA: 50 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/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.

Biological exposure indices

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SECTION 8: Exposure controls/personal protection **Product/ingredient name Exposure indices** VGU BEI (Austria, 9/2020) Toluene 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 vear. 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. 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. Ministry of Economy, Labour and Entrepreneurship ILV/STEL Propan-2-ol (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. No exposure indices known.

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Toluene No exposure indices known. No exposure indices known. 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. Biological limit values: 1.5 mg/g 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.
	after the working day.
No exposure indices known. Toluene	DFG BEI-values list (Germany, 7/2022) Notes: danger from
	 percutaneous absorption (see p. 211 and p. 228). BEI: 600 μg/l, toluene [in 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 the shift after several shifts. BEI: 75 μg/l, 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.
Propan-2-ol	 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.
No exposure indices known.	
Toluene	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.
Propan-2-ol	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.
No exposure indices known.	
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Toluene	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.
Propan-2-ol	NAOSH (Ireland, 1/2011)
	BMGV: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	
Toluene	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: er of the shift.
No exposure indices known.	
Foluene	Portuguese Institute of Quality (Portugal, 11/2014)
	BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end
	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.
Propan-2-ol	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.
Toluene	HG 1218/2006, Annex 2, with subsequent modifications and
	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.
Propan-2-ol	HG 1218/2006, Annex 2, with subsequent modifications and
	additions (Romania, 3/2020)
Taluana	OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
Foluene	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 tim 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 c exposure or work shift; long-term exposure: after several work
	shifts.
	BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end o exposure or work shift.
	BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the er of exposure or work shift.

SECTION 8: Exposure controls/per	rsonal protection

		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.
	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 μ g/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 μ g/l, toluene [in urine]. Sampling time: at the end of the work shift.
	Propan-2-ol	Regulation on protection of workers from the risks related to 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.
	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. 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.
	Propan-2-ol	National institute of occupational safety and health (Spain, 4/2022) VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek.
	No exposure indices known.	
	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 long-term 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 working hours. In case of long-term exposure: 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: 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.
	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
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		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.
Recommended monitoring procedures	European Stan assessment of values and me atmospheres - of exposure to (Workplace atr for the measure	uld be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Toluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	56.5 mg/m ³		Local
		Inhalation		population	
	DNEL	Long term	56.5 mg/m ³	General	Systemic
		Inhalation	_	population	
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg	General	Systemic
	D		bw/day	population	
	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Systemic
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	37 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m ³	General population	Local
	DNEL	Long term Inhalation	367 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m³	General	Local
	DNEL	Short term Inhalation	734 mg/m³	General	Systemic
	DNEL	Long term	734 mg/m ³	Workers	Local
	DNEL	Inhalation Long term Inhalation	734 mg/m³	Workers	Systemic
	DNEL	Short term	1468 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m ³	Workers	Systemic
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic

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DNEL DNEL DNEL DNEL DNEL	Long term Oral Short term Dermal Short term Dermal Long term	2 mg/kg bw/day 6 mg/kg bw/day 11 mg/kg bw/day	General population General population Workers	Systemic Systemic Systemic
DNEL DNEL	Short term Dermal Long term	6 mg/kg bw/day 11 mg/kg bw/day	General population	
DNEL DNEL	Short term Dermal Long term	bw/day 11 mg/kg bw/day	population	
DNEL	Long term	11 mg/kg bw/day		Systemic
DNEL	Long term	bw/day		
		35.7 mg/m ³	General	Local
	Inhalation	J.	population	
	Short term	300 mg/m ³	General	Local
	Inhalation	J	population	
DNEL	Short term	300 mg/m ³	General	Systemic
	Inhalation	Ŭ	population	-
DNEL	Long term	300 mg/m ³	Workers	Local
	Inhalation	_		
DNEL	Short term	600 mg/m ³	Workers	Local
	Inhalation			
DNEL		600 mg/m³	Workers	Systemic
DNEL	Long term Dermal			Systemic
	Long term Dermal	bw/day	Workers	Systemic
DNEL	Long term	12 mg/m³	General	Systemic
DNEL		48 mg/m³	Workers	Systemic
DNEL	Long term Oral			Systemic
DNEL		89 mg/m³	• • • • • • • •	Systemic
		040		
DNEL	Long term Dermal			Systemic
	1			O. uniter mail
DNEL		500 mg/m ³	vvorkers	Systemic
		000 malles	Workoro	Sustamia
	Long term Dermal		VVOIKEIS	Systemic
	Long torm		Conoral	Local
DINEL		55 mg/m²		LUCal
		310 mg/m^3		Local
		5 to mg/m	VV UINEIS	LUCAI
	DNEL	DNELInhalation Long term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term DermalDNELLong term DermalDNELLong term InhalationDNELLong term Inhalation	InhalationJone of the second seco	InhalationpopulationDNELLong term300 mg/m³WorkersInhalation600 mg/m³WorkersDNELShort term600 mg/m³WorkersInhalation00 mg/m³WorkersDNELShort term600 mg/m³WorkersInhalation00 mg/m³WorkersDNELLong term Dermal3.4 mg/kgGeneralDNELLong term Dermal7 mg/kgWorkersDNELLong term Dermal7 mg/kgWorkersDNELLong term12 mg/m³GeneralInhalation12 mg/m³GeneralDNELLong term48 mg/m³WorkersInhalation26 mg/kgGeneralDNELLong term Dermal319 mg/kgGeneralDNELLong term Dermal319 mg/kgGeneralDNELLong term Dermal888 mg/kgWorkersDNELLong term Dermal888 mg/kgWorkersDNELLong term Dermal888 mg/kgWorkersDNELLong term Dermal810 mg/m³GeneralDNELLong term Dermal810 mg/m³GeneralDNELLong term Dermal888 mg/kgWorkers

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 measur	es	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

Skin protection

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Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): $4H$ / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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
	51
Environmental experies	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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	:
boiling range	

	Ingredient name	°C	°F	Method
	Ethyl acetate	77.1	170.8	
	Propan-2-ol	83	181.4	
F	lammability : Not ava	ailable.		

i lamina binty	· Not available.
Lower and upper explosion limit	: Lower: 1.1% Upper: 12%

Flash point: Closed cup: -1°C (30.2°F)Auto-ignition temperature:

Ingredient name	°C	°F	Method	
n-Butyl acetate	415	779	EU A.15	
iso-butanol	415	779		

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SECTION 9: Physical and chemical properties

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Decomposition temperature	1	Not available.
рН	:	Not applicable.
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.

Vapour pressure

	Va	pour Press	ure at 20°C	V	apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
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
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
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	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
·	LD50 Oral	Rat	5000 mg/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours

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SECTION 11: Toxicological information LD50 Dermal Rabbit 3400 mg/kg LD50 Oral Rat 2460 mg/kg

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Causes skin irritation.			·	
<u>Sensitisation</u>					
Conclusion/Summary	: Based on available data, the	classification cr	riteria are	not met.	

ed on available data, the classification criteria are not met.
ed on available data, the classification criteria are not met.
ed on available data, the classification criteria are not met.
ed on available data, the classification criteria are not met.

Conclusion/Summary : Suspected of damaging the unborn child.

Teratogenicity

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene Ethyl acetate n-Butyl acetate Propan-2-ol iso-butanol	Category 3 Category 3 Category 3 Category 3 Category 3 Category 3	- - - -	Narcotic effects Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

	ngredient name	Resu	llt
Toluene		ASPIRATION HAZARD - (Category 1
formation on likely routes f exposure	: Not available.		
otential acute health effects			
Eye contact	Causes serious eye damage.		
nhalation	: Can cause central nervous syst dizziness.	em (CNS) depression. May	cause drowsiness or
Skin contact	: Causes skin irritation.		
ngestion	: Can cause central nervous syst	em (CNS) depression.	
ymptoms related to the phy	sical, chemical and toxicological	characteristics	
Eye contact	: Adverse symptoms may include pain watering redness	the following:	
nhalation	: Adverse symptoms may include nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations	the following:	
Skin contact	: Adverse symptoms may include pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	the following:	
Ingestion	: Adverse symptoms may include stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	the following:	
olaved and immediate office	ts as well as chronic effects from	short and long term experience	
Short term exposure	to as well as enrolle enects non	short and long-term exper	
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	<u>ects</u>		
Not available.			
Conclusion/Summary	: Not available.		
General	: May cause damage to organs the	rough prolonged or repeated	l exposure.
Carcinogenicity	: No known significant effects or	• • • •	-
	: No known significant effects or		
Mutagenicity	· No known olgrinicant choole of		

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SECTION 11: Toxicological information

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

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus</i> pseudolimnaeus - Adult	48 hours
	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 - Daphnia magna	21 days
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
,	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
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
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	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
iso-butanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary the classification criteria are not met. sed on avallable data.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	I	noculum
iso-butanol	-	74 % - Readily - 28 days		-	-	
Conclusion/Summary : This product has not been tested for biodegradation.						
Product/ingredient name	Aquatic half-life	Aquatic half-life Photolysis			В	iodegradability
iso-butanol	-		-		R	eadily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene	2.73	90	Low
Ethyl acetate	0.68	30	Low
n-Butyl acetate	2.3	-	Low
Propan-2-ol	0.05	-	Low
iso-butanol	1	-	Low

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

: Not available.

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SECTION 12: Ecological information

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. : 08.01.11 **European waste** catalogue (EWC) 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. This material and its container must be disposed of in a safe way. Care should be **Special precautions** 2 taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (toluene, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (toluene, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, Isopropyl alcohol)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, Isopropyl alcohol)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

SECTION 14: Transp	information	
ADR/RID	<u>Special provisions</u> 640 (C) <u>Tunnel code</u> (D/E)	
ADN	The product is only regulated as an environmentally hazardous substance wh transported in tank vessels. Special provisions 640 (C)	len
IMDG	The marine pollutant mark is not required when transported in sizes of \leq 5 L or	vr ≤5 kg.
ΙΑΤΑ	The environmentally hazardous substance mark may appear if required by oth transportation regulations.	her
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that upright and secure. Ensure that persons transporting the product know what to 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: Regula	y information	

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
AC TAUCHLACK 4310-30 Toluene	≥90 ≥25 - ≤50	3 48
Labelling :		
Other EU regulations		
Industrial emissions : Not listed (integrated pollution prevention and control) - Air		
Industrial emissions : Not listed (integrated pollution prevention and control) - Water		
Explosive precursors : Not applicab	le.	
Ozone depleting substances (1005/2009/E	<u>U)</u>	
Not listed.		
Prior Informed Consent (PIC) (649/2012/EU Not listed.	<u>(I</u>	
Persistent Organic Pollutants Not listed.		
Seveso Directive This product is controlled under the Seveso I Danger criteria	Directive.	

SECTION 15: Regulatory information

|--|

P5c

1 00	
National regulations	
<u>Austria</u>	
VbF class	: A I Very dangerous flammable liquid.
Limitation of the use of organic solvents	: Permitted.
Czech Republic	
Storage code	: 1
<u>Denmark</u>	
Danish fire class	: I-1
Executive Order No. 1795	<u>/2015</u>

2

Ingredient name	Annex I Section A	Annex I Section B
Propan-2-ol Ethylbenzene	Listed Listed	-
MAL-code : 5-3		

MAL-code

Protection based on MAL

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

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

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

MAL-code: 5-3

Application: When spraying in new* booths if the operator is outside the spray zone. 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. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied full mask must be worn.

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. 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 full mask and coveralls must be worn.

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

- Air-supplied full mask, arm protectors and apron 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.

SECTION 15: Regulatory information

	Drying: Items for drying/drying ovens that are temporar rack trolleys, etc, must be equipped with a mechanical endinees from wet items from passing through workers' inhomore the strest strest from passing through workers.	xhaust system to prevent
	Polishing: When polishing treated surfaces, a mask wir When machine grinding, eye protection must be worn. W worn.	
	Caution The regulations contain other stipulations in ad	dition to the above.
	*See Regulations.	
Low-boiling liquids	 This product contains low-boiling point liquids. Any respin should be air-fed. 	ratory protective equipment
Restrictions on use	: Not to be used by professional users below 18 years of a Working Environment Authorities Executive Order regard	
List of undesirable substances	: Listed	
Carcinogenic waste	: Waste containers must be labeled: Contains a substance by Danish working environment legislation on cancer risk	
<u>Finland</u> France		
Social Security Code, Articles L 461-1 to L 461-7	Ethyl acetate F n-Butyl acetate F Propan-2-ol F	RG 4bis, RG 84 RG 84 RG 84 RG 84 RG 84 RG 84
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activities whic medical surveillance: not applicable	h require reinforced
<u>Germany</u>		
Storage class (TRGS 510)	: 3	
Hazardous incident ordina	<u>ce</u>	
This product is controlled une	er the Germany Hazardous Incident Ordinance.	
Danger criteria		
Category		Reference number
P5c		1.2.5.3
Hazard class for water	: 3	
Technical instruction on air quality control	TA-Luft Number 5.2.5: 51.1%	

air quality control TA-Luft Class I - Number 5.2.5: 41.6%

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	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
tolueen Naphtha (petroleum), hydrodesulfurized heavy	- Listed	- Listed	-	Development 2 -	-
xylene Solvent naphtha (petroleum), light arom.	- Listed	- Listed	-	Development 2 -	- -

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SECTION 15: Regulatory information

	-
Water Discharge Policy	: Z(1) Non biodegradable substances with hazardous properties for humans and the
(ABM)	environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/
	toxicity or persistence). Decontamination effort: Z
<u>Norway</u>	

<u>Sweden</u>	
Flammable liquid class (SRVFS 2005:10)	: 1
Switzerland	
VOC content	: VOC (w/w): 87.5%
International regulations	
Chemical Weapon Convent	ion 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.

vPvB = Very Persistent and Very Bioaccumulative	Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

SECTION 16:	Other information
H225 H	Highly flammable liquid and vapour.
H226 F	Flammable liquid and vapour.
H304 M	May be fatal if swallowed and enters airways.
H315 (Causes skin irritation.
H318 (Causes serious eye damage.
H319 (Causes serious eye irritation.
H335 M	May cause respiratory irritation.
H336 M	May cause drowsiness or dizziness.
H361d S	Suspected of damaging the unborn child.
H373 M	May cause damage to organs through prolonged or repeated exposure.
EUH066 F	Repeated exposure may cause skin dryness or cracking.
Full text of classif	ications [CLP/GHS]
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
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/ Dat revision	e of : 28/02/2024
Date of previous i	ssue : No previous validation
Version	: 1

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 AC TAUCHLACK 4310-30 : 28/02/2024 Date of previous issue