SAFETY DATA SHEET



KORRO E - All variants

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

1.1 Product identifier Product name

: 🔀 ORRO E - All variants

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 Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

: Danger

- : H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - H361d Suspected of damaging the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

SECTION 2: Hazards identification

Prevention	1	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. P273 - Avoid release to the environment.
Response	:	P391 - Collect spillage.
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
Supplemental label elements	1	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

Type [1][2] [1]
[1]
[1] [*]
[1] [2]
[1]
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SECTION 3: Composition/information on ingredients 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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures				
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.			
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.			
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.			
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.			

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

<u>over exposure signs/symptoms</u>		
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 reduced foetal weight increase in foetal deaths skeletal malformations	

Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immedi	iate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Notes to physician Specific treatments	
	quantities have been ingested or inhaled.No specific treatment.
Specific treatments	quantities have been ingested or inhaled.No specific treatment.

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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus 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.	
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".	

SECTION 6: Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.	
6.3 Methods and materia	al 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. Avoid release to the environment. 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

: 15/05/2024 Date of previous issue

SECTION 7: Handling and storage			
		Notification and MAPP threshold	Safety report threshold
		5000 tonne 200 tonne	50000 tonne 500 tonne

7.3 Specific end use(s)

Recommendations

Not available.Not available.

Industrial sector specific 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

Propan-2-ol Butanone	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. 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. PEAK: 2000 mg/m ³ , 4 times per shift, 15 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours.
Butanone	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. Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 100 ppm 8 hours.
1	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 100 ppm 8 hours.
Toluene I	TWA: 295 mg/m³ 8 hours. PEAK: 200 ppm, 4 times per shift, 30 minutes. PEAK: 590 mg/m³, 4 times per shift, 30 minutes.
	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.
Propan-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.
Butanone	Limit values (Belgium, 5/2021). TWA: 200 ppm 8 hours. TWA: 600 mg/m ³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 900 mg/m ³ 15 minutes.
I	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/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. Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 980 mg/m ³ 8 hours.
te of issue/Date of revision : 15/05/2024 Date	Limit value 15 min: 1225 mg/m ³ 15 minutes.

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Butanone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 590 mg/m ³ 8 hours.
	Limit value 15 min: 885 mg/m ³ 15 minutes.
Foluene	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.
Propan-2-ol	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 1250 mg/m ³ 15 minutes.
	STELV: 500 ppm 15 minutes.
	ELV: 999 mg/m ³ 8 hours.
Butanone	ELV: 400 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/
Dutailone	STELV (Croatia, 1/2021).
	STELV: 900 mg/m ³ 15 minutes.
	STELV: 300 ppm 15 minutes.
	ELV: 600 mg/m ³ 8 hours.
	ELV: 200 ppm 8 hours.
Voluene	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.
Butanone	Department of labour inspection (Cyprus, 7/2021).
	STEL: 300 ppm 15 minutes.
	STEL: 900 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
— .	TWA: 600 mg/m ³ 8 hours.
Foluene	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). Absorbed through skin. TWA: 192 mg/m ³ 8 hours.
	TWA: 192 mg/m² o hours. TWA: 50.112 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100.224 ppm 15 minutes.
Propan-2-ol	Government regulation of Czech Republic PEL/NPK-P (Czech
	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.
Butanone	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022).
	TWA: 600 mg/m ³ 8 hours.
	TWA: 200.4 ppm 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 300.6 ppm 15 minutes.
P oluene	Working Environment Authority (Denmark, 6/2022). Absorbed
	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.
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/m³ 15 minutes.
	STEL: 400 ppm 15 minutes.
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Butanone	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 50 ppm 8 hours. TWA: 145 mg/m ³ 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
Foluene	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/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
Propan-2-ol	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	TWA: 350 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	STEL: 600 mg/m ³ 15 minutes.
Butanone	STEL: 250 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia,
Butanone	12/2022).
	TWA: $600 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 200 ppm 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
₽ oluene	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.
Butanone	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 200 ppm 8 hours.
	TWA: 600 mg/m ³ 8 hours.
	STEL: 300 ppm 15 minutes. STEL: 900 mg/m ³ 15 minutes.
F oluene	Institute of Occupational Health, Ministry of Social Affairs
roldene	(Finland, 10/2021). Absorbed through skin. Ototoxicant.
	TWA: 25 ppm 8 hours.
	TWA: 81 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Dremen 2 el	STEL: 380 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.
Butanone	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	STEL: 100 ppm 15 minutes. STEL: 300 mg/m ³ 15 minutes.
	TWA: 60 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
Voluene	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/m³ 15 minutes.
Propan-2-ol	Ministry of Labor (France, 10/2022). Notes: Permissible limit
	values (circulars)
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	STEL: 400 ppm 15 minutes.
	STEL: 980 mg/m ³ 15 minutes.
Butanone	Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 200 ppm 8 hours. TWA: 600 mg/m ³ 8 hours.
	STEL: 900 mg/m³ 15 minutes.
	STEL: 300 ppm 15 minutes.
oluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m ³ 8 hours. PEAK: 380 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 190 mg/m ³ 8 hours.
ropan-2-ol	PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022).
10pan-2-01	TWA: 500 mg/m ³ 8 hours.
	PEAK: 1000 mg/m ³ 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/m ³ 8 hours.
utanana	PEAK: 1000 mg/m ³ , 4 times per shift, 15 minutes.
utanone	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 600 mg/m ³ 8 hours.
	PEAK: 600 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 200 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 200 ppm 8 hours.
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 600 mg/m ³ 8 hours.
	PEAK: 600 mg/m ³ , 4 times per shift, 15 minutes.
oluene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
ropan-2-ol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). TWA: 400 ppm 8 hours.
	TWA: 400 ppm 8 hours.
	STEL: 500 ppm 15 minutes.
	STEL: 1225 mg/m ³ 15 minutes.
utanone	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 200 ppm 8 hours.
	TWA: 600 mg/m ³ 8 hours.
	STEL: 300 ppm 15 minutes. STEL: 900 mg/m ³ 15 minutes.
	STEL. 900 mg/m 15 minutes.

Foluene	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.
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.
Butanone	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 600 mg/m ³ 8 hours.
	PEAK: 900 mg/m ³ 15 minutes.
	PEAK: 300 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
Voluene	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.
Butanone	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
Butanone	Absorbed through skin.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 145 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
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.
Propan-2-ol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 200 ppm 8 hours.
	OELV-15min: 400 ppm 15 minutes.
Butanone	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 200 ppm 8 hours.
	OELV-8hr: 600 mg/m ³ 8 hours.
	OELV-15min: 300 ppm 15 minutes.
	OELV-15min: 900 mg/m ³ 15 minutes.
Toluene	Legislative Decree No. 819/2008. Title IX. Protection from
Toldene	-
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
Dutanana	8 hours: 192 mg/m ³ 8 hours.
Butanone	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	8 hours: 200 ppm 8 hours.
	8 hours: 600 mg/m ³ 8 hours.
	Short Term: 300 ppm 15 minutes.
	Short Term: 900 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Toluene Absorbed through skin. TWA: 50 mg/m³ 8 hours. STEL: 150 mg/m³ 15 minutes. TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes. Propan-2-ol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 350 mg/m³ 8 hours. STEL: 600 mg/m³ 15 minutes. **Butanone** Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). STEL: 300 ppm 15 minutes. TWA: 67 ppm 8 hours. STEL: 900 mg/m³ 15 minutes. TWA: 200 mg/m³ 8 hours. Voluene 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. 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. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). **Butanone** TWA: 600 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 900 mg/m³ 15 minutes. STEL: 300 ppm 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. Grand-Duchy Regulation 2016. Chemical agents. Annex I **Butanone** (Luxembourg, 3/2021). TWA: 200 ppm 8 hours. TWA: 600 ma/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 900 mg/m³ 15 minutes. Voluene 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. EU OEL (Europe, 1/2022). Notes: list of indicative **Butanone** occupational exposure limit values TWA: 200 ppm 8 hours. TWA: 600 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 900 mg/m³ 15 minutes. Voluene 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 **Butanone** (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 590 mg/m³ 8 hours.

	STEL,15-min: 900 mg/m ³ 15 minutes.
	OEL, 8-h TWA: 197 ppm 8 hours.
	STEL,15-min: 300 ppm 15 minutes.
oluene	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.
Propan-2-ol	FOR-2011-12-06-1358 (Norway, 12/2022).
	TWA: 100 ppm 8 hours.
	TWA: 245 mg/m ³ 8 hours.
Butanone	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 75 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
oluene	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.
Propan-2-ol	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/m ³ 8 hours.
	STEL: 1200 mg/m ³ 15 minutes.
Butanone	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: 450 mg/m ³ 8 hours. STEL: 900 mg/m ³ 15 minutes.
7 .	
oluene	Portuguese Institute of Quality (Portugal, 11/2014). Absorbe
	through skin.
	TWA: 20 ppm 8 hours.
Propan-2-ol	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 200 ppm 8 hours.
Butanone	STEL: 400 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014).
Julanone	TWA: 200 ppm 8 hours.
	STEL: 300 ppm 15 minutes.
oluene	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.
Propan-2-ol	HG 1218/2006, Annex 1, with subsequent modifications and
100411-2-01	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.
Butanone	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021).
	VLA: 600 mg/m ³ 8 hours.
	VLA: 200 ppm 8 hours.
	Short term: 900 mg/m ³ 15 minutes.
	Short term: 300 ppm 15 minutes.

Toluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 192 mg/m 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 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/m ³ 15 minutes.
Datasa	STEL: 400 ppm 15 minutes.
Butanone	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 600 mg/m³ 8 hours. TWA: 200 ppm 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
Toluene	
louene	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.
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/m ³ , 4 times per shift, 15 minutes.
Dutanana	KTV: 400 ppm, 4 times per shift, 15 minutes.
Butanone	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin.
	TWA: 600 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 900 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 300 ppm, 4 times per shift, 15 minutes.
Voluene	National institute of occupational safety and health (Spain,
p. 0.20110	4/2022). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 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/m³ 8 hours. STEL: 400 ppm 15 minutes.
	STEL: 1000 mg/m^3 15 minutes.
Butanone	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 600 mg/m ³ 8 hours.
	STEL: 300 ppm 15 minutes.
	STEL: 900 mg/m ³ 15 minutes.
Voluene	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.
Dronon 2 ol	STEL: 384 mg/m ³ 15 minutes.
Propan-2-ol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). TW/A: 150 ppm 8 hours
	TWA: 150 ppm 8 hours. TWA: 350 mg/m ³ 8 hours.
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ECTION 8: Exposure of	controls/personal protection
	STEL: 250 ppm 15 minutes.
	STEL: 600 mg/m ³ 15 minutes.
Butanone	Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
	STEL: 300 ppm 15 minutes.
	STEL: 900 mg/m ³ 15 minutes.
Voluene	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.
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.
Butanone	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 200 ppm 8 hours.
	TWA: 590 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 590 mg/m ³ 15 minutes.
Voluene	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.
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.
Butanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 899 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
, y.ee	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.

Biological exposure indices

Product/ingredient name			Exposure indices			
i roluene		BEI Fitness: 0.8 m BEI Fitness: 1300 blood count) [in blood BEI Fitness: 1500 year. BEI Fitness: 3700	9/2020) Ig/l, toluene [in blood Ig/l, o-cresol [in urine 00 /μl, platelets (non od]. Sampling time: α 00 /μl, platelets [in b to 13000 /μl, leukoc ount) [in blood]. Sam	e]. Sampling time -pathological dif one year. lood]. Sampling ytes (non-pathol	e: one feren time: logica	e year. tial one
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	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.	
₽ oluene	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.
F oluene	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.
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.
Butanone	Ministry of Economy, Labour and Entrepreneurship ILV/STEL
	(Croatia, 10/2018) BEI: 2.6 mg/g creatinine, ethyl-methyl ketone [in urine]. Sampling
	time: at the end of the work shift.
	BEI: 4.08 mmol/mol creatinine, ethyl-methyl ketone [in urine].
No exposure indices known.	Sampling time: at the end of the work shift.
	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
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	hydrolysis) [in urine]. Sampling time: end of the shift.
No ovnosuro indiaco known	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
oluene	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.
No exposure indices known.	
Foluene	 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 afte 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 o 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: 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 exposure or end of shift; for long-term exposures: at the end of exposure or end of shift; for long-term exposures: at the end of exposure or end of shift; for long-term exposures: at the 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.
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.
Butanone	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2 mg/l, 2-butanone [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 2 mg/l, 2-butanone [in urine]. Sampling time: end of exposure or end of shift.
No exposure indices known.	
Voluene	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: a 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.
Butanone	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 28 μmol/l, methyl-ethyl-ketone [in urine]. Sampling time: at

	the end of the shift. BEI: 2 mg/l, methyl-ethyl-ketone [in urine]. Sampling time: at the end of the shift.
No exposure indices known.	
r ∕oluene	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.
Butanone	NAOSH (Ireland, 1/2011) BMGV: 70 μmol/l, butan-2- one [in urine]. Sampling time: post shift.
No exposure indices known.	
Voluene	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: en of the shift.
No exposure indices known.	
Voluene	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.
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.
Butanone	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 2 mg/l, methyl ethyl ketone (MEK) [in urine]. Sampling time: end of shift.
Voluene	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) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
Butanone	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.

Foluene Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 1010 µmol/mmol creatinine, hippuic add [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.8 µmol/mol creatinine, o_creasel [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 µmg/g creatinine, o_creasel [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 µmg/g creatinine, o_creasel [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 µmg/g creatinine, o_creasel [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 µmg/g creatinine, o_creasel [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 µmg/g creatinine, o_creasel [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 µmg/g creatinine, o_creasel [in urine]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/, toluene [in blocd]. Sampling time: at the end of the work shift. BLV: 1.57 µg/l, toluene [in blocd]. Sampling time: at the end of the work shift. BLT: 1.57 µg/l, toluene [in blocd]. Sampling time: at the end of the work shift. Butanone BAT: 1.57 µg/l, toluene [in blocd]. Sampling time: at the end of the work shift. Butanone Propan-2-ol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Butanone Propan-2-ol National institute of occupational safety and health (Spain, 4/2022) VLE: 40 mg/l, acetore [in urine]. Sampling time: end of shift. Propan-2-ol National institute of occupational safety a				C (Olavakia, 0/0000)
BLV: 108 µmol/mol creatine, e-creasi [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 µmol/mol creatine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 µmol/mol creatine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 µmol/, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 µmol/, occressi [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 µmol/, bipuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 µmol/, bipuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 µmol/, bipuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 µmol/, bipuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 µmol/, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 µmol/, bipuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 µmol/, bipuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 µmol/, bipuric acid [in urine]. Sampling time: at the end of the work shift. BLV: 100 µmol/, bipuric acid [in urine]. Sampling time: at the end of the work shift. BLV: 100 µmol/, bipuric acid [in urine]. Sampling time: at the end of the work shift. BAT: 150 µgl, toluene [in blood]. Sampling time: at the end of the work shift.	roluene	BLV: 1010 μmol/m	imol creatinine, hippu	uric acid [in urine].
Image: at the end of exposure or work shift; long-term exposure: BLV: 1600 mglg creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 mg/g creatinine, occreaol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 mg/g creatinine, occreaol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 133 mg/g creatinine, occreaol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1637 mmol/, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 15 mg/l, occreaol [in urine]. 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: 15 mg/l, occreaol (after hydrolysis) [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 mg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 100 mg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 100 mg/l, toluene [in blood]. Sampling time: at the end of the work shift. BLV: 100 mg/l, toluene [in blood]. Sampling time: at the end of the work shift. BLV: 100 mg/l, coluene [in blood]. Sampling time: at the end of the work shift. BLV: 100 mg/l, coluene [in blood]. Sampling time: at the end of the work shift. BLV: 100 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BLV: 100 m				
BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 mg/g creatinine, o-creaol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 mg/g creatinine, o-creaol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 mg/g creatinine, o-creaol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 mg/g creatinine, input cash fill in urine]. Sampling time: at the end of exposure or work shift. BLV: 103 mg/g creatinine, input cash fill in urine]. Sampling time: at the end of exposure or work shift. BLV: 107 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 107 mg/l, bipuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 ug/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 000 ug/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 000 ug/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 000 ug/l, toluene [in blood]. 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, S/2021) BAT: 25 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, S/2021) BAT: 25 mg/l, acetone [in urine]. Sampling time: at				
at the end of exposure or work shift. BU-1 103 mg/d creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BU-V: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BU-V: 14.3 µmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BU-C: 6517 nmol/l, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BU-C: 6617 nmol/l, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BU-V: 600 µg/l, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BU-V: 600 µg/l, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BU-V: 600 µg/l, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BU-Y: 600 µg/l, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BU-Y: 600 µg/l, toluene [in blocd]. Sampling time: at the end of exposure or work shift. BU-Y: 600 µg/l, toluene [in blocd]. Sampling time: at the end of the work shift. BAT: 7.5 µg/l, coresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift. BAT: 25 µg/l, toluene [in urine]. Sampling time: at the end of the work shift. BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift. BAT: 25 µg/l, toluene [in urine]. Sampling time: at the end of the work shift. BAT: 25 µg/l, toluene [in urine]. Sampling time: at the end of the work shift.				
BLV: 103 mg/g creatinine, o-create [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1339 µmol/L, hispuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1631 µmol/L, o-create [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1631 µmol/L, o-create [in urine]. Sampling time: at the end of exposure or work shift. BLV: 2401 mg/L, hispuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.50 mg/L, coresci [in urine]. Sampling time: at the end of exposure or work shift. BLV: 2401 mg/L, hispuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.60 upg/L, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 1.60 upg/L, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 1.60 upg/L, toluene [in blood]. Sampling time: at the end of the work shift after several consecutive workdays. BLT: 60 upg/L, toluene [in blood]. Sampling time: insteaded to exposure. BLT: 75 upg/L, coluene [in blood]. Sampling time: insteaded to exposure. Breact consecutive workdays. BLT: 75 upg/L, coluene [in urine]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, S/2021) BAT: 25 mg/L, acetone [in urine]. Sampling time: at				id [in urine]. Sampling time:
Several work shifts. BLV. 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV. 617 mmol/l, biopuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV. 617 mmol/l, hippuric acid [in urine]. 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. 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV. 15 mg/l, -ocresel [in urine]. Sampling time: at the end of exposure or work shift. BLV. 160 mg/l, blood]. Sampling time: at the end of exposure or work shift. BLV. 15 mg/l, -ocresel [in urine]. Sampling time: at the end of exposure or work shift. BLV. 160 mg/l, blood]. Sampling time: at the end of exposure or work shift. BLV. 15 mg/l, -ocresel [in urine]. Sampling time: at the end of exposure or work shift. BLV. 160 mg/l, blood]. Sampling time: at the end of exposure or work shift. BLV. 15 mg/l, -ocresel [in urine]. Sampling time: at the end of the work shift. BLV. 160 mg/l, blood]. Sampling time: at the end of the work shift. Foluene 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. 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. Butanone		BLV: 1.03 mg/g cro	eatinine, o-cresol [in	
end of exposure or work shift. BLV: 16.3 ymol()cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 6517 mol(). toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2001 mgl, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 517 mol(). toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 500 µgl, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µgl, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µgl, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µgl, toluene [in blood]. Sampling time: at the end of the work shift. BLV: 600 µgl, toluene [in blood]. Sampling time: at the end of the work shift. BLV: 600 µgl, toluene [in blood]. Sampling time: at the end of the work shift. BLV: 600 µgl, toluene [in blood]. Sampling time: at the end of the work shift. BLT: 1.5 mgl, occreasol [in urine]. Sampling time: immediately after exposure. BAT: 1.5 f. ggl, 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 mgl, acetone [in urine]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) B		several work shifts.		·
exposure or work shift; long-term exposure: after several work shift; BLV: 6517 mmol/, foluene [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: 15 mg/l, occesol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 16 00 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of the work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of the work shift. BLT: 5 mg/l, occesol (after hydrolysis) [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. 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. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 27 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Foluene Nati		end of exposure or	work shift.	
BLV: 6817 mmolf, 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: 15 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of the work shift. BAT: 0.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift. BAT: 75 µg/l, o-cresol (after hydrolysis) [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. Butanone 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 blood]. Sampling time: at the end of the work shift. Butanone 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 blood]. Sampling time: at the end of the work shift. Foluene National institute of occupational safety and heaith (Spain, 4/2022) VLB: 0.05 mg/l, toluene		exposure or work sh		
BLV: 2401 mg/l, hippurc 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. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure to chemical substances at work (Slovenia, 5/2021) BAT: 1.5 mg/l, o-cresol (after thydrolysis) [in unne]. Sampling time: at the end of the work shift. It ong-term exposure: at the end of the work shift. Propan-2-ol BAT: 7.5 ug/l, toluene [in blood]. 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: 7.5 ug/l, zoetone [in urine]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 7.2 ug/l, zoetone [in urine]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, zoetone [in urine]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) </th <th></th> <th>BLV: 6517 nmol/l,</th> <th></th> <th>ampling time: at the end of</th>		BLV: 6517 nmol/l,		ampling time: at the end of
BLÚ: 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: BLU: 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 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 tong-term exposure: at the end of the work shift, at tong-term exposure: 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: 75 µg/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 µg/l, acetone [in urine]. Sampling time: at the end of the work shift. BAT: 75 µg/l, acetone [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. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Foluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.08 mg/l, toluene [in blood]. Sampling time: end of the work shift. Propan-2-ol National institute of occupational safety and health (Spain, 4/2022) VLB: 0.08 m		BLV: 2401 mg/l, hi	ppuric acid [in urine]	. Sampling time: at the end
BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. Foluene 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: 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: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift. BAT: 25 mg/l, acetone [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. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Foluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.0 gm/l, toluene [in blood]. Sampling time: end of shift. Propan-2-ol National institute of occupational safety and health (Spain, 4/2022) VLB: 0.0 gm/l, toluene [in urine]. Sampling tim		BLV: 1.5 mg/l, o-cr exposure or work sł	resol [in urine]. Samp	
Foluene 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 urine]. Sampling time: at the end of the work shift. Propan-2-ol Regulation on protection of workers from the risks related to exposure. BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift. 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. Butanone 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 blood]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Foluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.0 mg/l, toluene [in blood]. Sampling time: end of shift. Propan-2-ol National institute of occupational safety and health (Spain, 4/2022) VLB: 0.0 mg/l, toluene [in urine]. Sampling time: end of workweek. VLB: 0.0 mg/l, toluene [in urine]. Sampling time: end of		BLV: 600 µg/l, tolu		ling time: at the end of
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 after several consecutive workdays. BAT: 600 µg/l, toluene [in urine]. Sampling time: immediately after exposure. BAT: 75 µg/l, coluene [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. Butanone 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 blood]. Sampling time: at the end of the work shift. Butanone 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 blood]. Sampling time: at the end of the work shift. Butanone 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. Foluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in urine]. Sampling time: end of shift. Propan-2-ol National institute of occupational safety and health (Spain, 4/2022) <th></th> <th>exposure or work sh</th> <th>nift.</th> <th></th>		exposure or work sh	nift.	
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, at long-term exposure: 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. 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. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Foluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: end of shi	Foluene			
at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays. BAT: 60 µg/, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 µg/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. Butanone 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. Butanone 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 blood]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2002) WLB: 20 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. Foluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 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. <tr< th=""><th></th><th>-</th><th></th><th></th></tr<>		-		
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. 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. Butanone 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 blood]. Sampling time: at the end of the work shift. Butanone Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 25 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Foluene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift. Foluene National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: end of shift. Propan-2-ol National institute of occupational safety and health (Spain, 4/2022) VLB: 0.06 mg/l creatinine, o-cresol [in urine]. Sampling time: end of workweek. Butanone National institute of occupational safety and health (Spain, 4/2022) VLB: 0.08 mg/l, coluene [in urine]. Sampling time: end of workweek. 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. <th></th> <th>at the end of the wo</th> <th>ork shift, at long-term</th> <th>exposure: at the end of</th>		at the end of the wo	ork shift, at long-term	exposure: at the end of
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Date of issue/Date of revision : 15/05/2024 Date of previous issue : 05/09/2022 Version : 3 18/32			<i>y</i> i ethyl ketone [in urii	nej. Sampling time: end of
	Date of issue/Date of revision : 1	5/05/2024 Date of previous issue	: 05/09/2022	Version : 3 18/32

SECTION 8: Exposure controls/personal protection				
No exposure indices known.				
Foluene	 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 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. 			
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.			
Butanone	SUVA (Switzerland, 1/2023) BEI: 2 mg/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm. BEI: 27.7 μmol/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm.			
B utanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 70 μmol/l, butan-2-one [in urine]. Sampling time: post shift.			
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	: 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.			

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Voluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	56.5 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	56.5 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m ³	General	Systemic
		Inhalation	204 mag//	population	Suptor:
	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
Propan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m³	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
Butanone	DNEL	Long term Oral	31 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	106 mg/m ³		Systemic
	DNEL	Long term Dermal	412 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1161 mg/ kg bw/day	Workers	Systemic
Trizinc bis(orthophosphate)	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measu	ires
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.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	> 8 hours (breakthrough time): 4H / Silver Shield® gloves.
	Wash hands before breaks and immediately after handling the product.
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

: Liquid.	
: Various	
: Slight	
: Not availa	able.
: Not availa	able.
:	
	: Liquid. : Various : Slight : Not availa : Not availa

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Ingredient name		°C	°F	Method	
Butanone		79.59	175.3		
Propan-2-ol		83	181.4		
Flammability	: Not ava	ailable.	ŀ	1	
Lower and upper explosion limit	: Vower: Upper:				
Flash point	: Closed	cup: 2°C (38	5.6°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
Butanone		404	759.2		
Propan-2-ol		456	852.8		
Decomposition temperature	: Not ava	ailable.			
рН	: Not ava	ailable.			
Viscosity	: Kinema	atic (40°C): >	20.5 mm²/s		
Solubility(ies)	:				
Not available.					
Solubility in water	: Not ava	ailable.			
Partition coefficient: n-octanol/ water	: Not app	olicable.			

Vapour pressure

	Vaj	Vapour Pressure at 20°C			Vapour pressure at 50°		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Butanone	78.7564	10.5					
Propan-2-ol	33.00268	4.4					
Relative density	: Not a	available.	•				
Density	: <mark>1</mark> .4 g	/cm³					
/apour density	: Not a	available.					
Explosive properties	: Not a	available.					
Dxidising properties	: Not a	available.					
Particle characteristics							
Median particle size	: Not a	applicable.					

SECTION 10: Stability and reactivity

:

KORRO E - All variants	Label No :38951
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10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
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.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	: The product is stable.
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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
Voluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Conclusion/Summary	: Based on available data, th	e classification crite	eria are not met.	·

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Voluene	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	-
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	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
Butanone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	: Causes skin irritation.	•	•	•	•

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

Carcinogenicity

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

: Based on available data, the classification criteria are not met.	
: Based on available data, the classification criteria are not met.	
: Suspected of damaging the unborn child.	
<u>(single exposure)</u>	
	 Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Suspected of damaging the unborn child. <u>y (single exposure)</u>

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Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 3	-	Narcotic effects
Propan-2-ol	Category 3	-	Narcotic effects
Butanone	Category 3	-	Narcotic effects

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	1	Causes skin irritation.
Ingestion	:	Can cause central nervous system (CNS) depression.
Symptoms related to the phy	sic	cal, 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 reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	•	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Delayed and immediate effect	cts as well as chronic effects from sho	ort and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
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Potential delayed effects	Not available.
Potential chronic health e	ffects
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging the unborn child.

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
Voluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus 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
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
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Butanone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Trizinc bis(orthophosphate)	Acute EC50 0.32 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 0.96 mg/l	Crustaceans - Ceriodaphnia dubia	48 hours

Conclusion/Summary

: Toxic to aquatic life with long lasting effects.

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
Voluene	2.73	90	Low
Propan-2-ol	0.05	-	Low
Butanone	0.3	-	Low
Trizinc bis(orthophosphate)	-	60960	High

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SECTION 12: Ecological information

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

<u>Product</u>	
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)	: 080111*, 200127*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)				3
14.4 Packing group		11		
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14.5 Environmental hazards	Yes.		Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.		
Additional informa	tion						
ADR/RID		sizes <u>Spec</u>	environmentally haza of ≤5 L or ≤5 kg. :ial provisions 640 (tel code (D/E)		not required when transported ir		
ADN		sizes	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Special provisions 640 (C) 				
IMDG		: The	marine pollutant mark	is not required when tra	nsported in sizes of ≤5 L or ≤5 kg		
ΙΑΤΑ			The environmentally hazardous substance mark may appear if required by other transportation regulations.				
14.6 Special precau user	itions for	uprig		e that persons transporting	oort in closed containers that are ng the product know what to do i		
14.7 Maritime trans bulk according to II instruments		: Not r	elevant/applicable du	e to nature of the produc	xt.		

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]			
KORRO E Toluene		≥90 ≥10 - ≤25	3 48			
Labelling	:		·			
Other EU regulations						
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed					
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed					
Explosive precursors	: Not applica	ble.				
Ozone depleting substanc	<u>es (1005/2009/</u>	<u>EU)</u>				
Not listed.						
Prior Informed Consent (P	PIC) (649/2012/I	<u>EU)</u>				
Not listed.						
Persistent Organic Polluta	<u>ints</u>					
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Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c E2	
E2	

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. 1795/2	<u>2015</u>

: 5-6

Ingredient name	Annex I Section A	Annex I Section B
₽ropan-2-ol	Listed	-
titanium dioxide	Listed	-
Ethylbenzene	Listed	-
Carbon black	Listed	-

MAL-code

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Protection based on MAL
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: 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: 5-6

Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns.

- Protective clothing must be worn.

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

ECTION 15: Regulat	to	ry information	
		- Air-supplied full mask and protective clothing must be wor	n.
		When spraying in new* booths if the operator is outside the	spray zone.
		- Air-supplied full mask must be worn.	
		During all spraying where atomisation occurs in cabins or s operator is inside the spray zone and during spraying outsic or booth.	
		- Air-supplied full mask, protective clothing and hood must l	be worn.
		Drying: Items for drying/drying ovens that are temporarily rack trolleys, etc, must be equipped with a mechanical exhat fumes from wet items from passing through workers' inhalated set in the set of the set	aust system to prevent
		Polishing: When polishing treated surfaces, a mask with o When machine grinding, eye protection must be worn. Wor worn.	
		Caution The regulations contain other stipulations in addit	ion to the above.
		*See Regulations.	
Low-boiling liquids	:	This product contains low-boiling point liquids. Any respirate should be air-fed.	ory protective equipment
Restrictions on use	:	Not to be used by professional users below 18 years of age Working Environment Authorities Executive Order regardin	
List of undesirable substances	:	Listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substance o by Danish working environment legislation on cancer risks.	r substances regulated
Finland			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7		TolueneRGPropan-2-olRGButanoneRG	
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which r medical surveillance: not applicable	equire reinforced
Germany			
Storage class (TRGS 510)	:	3	
Hazardous incident ordina	<u>nc</u>	<u>e</u>	
This product is controlled une Danger criteria	deı	the Germany Hazardous Incident Ordinance.	
Category			Reference number
			1.2.5.3
E2			1.3.2
Hazard class for water	:	3	
Technical instruction on air quality control	:	TA-Luft Class I - Number 5.2.5: 23.3% TA-Luft Number 5.2.5: 17% TA-Luft Class III - Number 5.2.2: 0.5%	
Italy			
D.Lgs. 152/06	÷	Not determined.	
Netherlands			

reprotoxic substances

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Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
olueen xylene silica, crystalline (NL- carcinogen specific)	- - Listed	- - -		Development 2 Development 2 -	- - -
Water Discharge Polic (ABM)	environr	nent (carcinogen	substances with haza icity/ mutagenicity/ re recontamination effort	protoxicity/ bioacum	
<u>Norway</u>	,	. ,			
<u>Sweden</u>					
Flammable liquid class (SRVFS 2005:10)	s :1				
<u>Switzerland</u>					
VOC content	: VOC (w	/w): 40.4%			
ternational regulation	<u>S</u>				
hemical Weapon Conv	vention List Sch	edules I, II & III	<u>Chemicals</u>		
lot listed.					
Iontreal Protocol					
lot listed.					
tockholm Convention	on Persistent C	Proanic Pollutan	ts		
lot listed.			_		
otterdam Convention	on Prior Inform	ed Consent (PIC	:)		
lot listed.			-		
NECE Aarhus Protoco	ol on POPs and	<u>Heavy Metals</u>			

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Flam. Liq. 2, H225	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Repr. 2, H361d	Calculation method	
STOT SE 3, H336	Calculation method	
STOT RE 2, H373	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

SECTION 16: Other information

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
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
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Notice to reader

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

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