SAFETY DATA SHEET



KORRO E - All variants

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

1.1 Product identifier

: KORRO E - All variants **Product name**

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

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

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Centre

: In an emergency, call 112 Telephone number

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 : Danger

: H225 - Highly flammable liquid and vapour. **Hazard statements**

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

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SECTION 2: Hazards identification

: P280 - Wear protective gloves, protective clothing, eye protection, face protection, **Prevention**

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.

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

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

national and international regulations.

Hazardous ingredients

Supplemental label

elements

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

: Contains: Toluene

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Poluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
Butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

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SECTION 3: Composition/information on ingredients

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

Type

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

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

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SECTION 4: First aid measures

Ingestion

: Adverse symptoms may include the following: reduced foetal weight

increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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".

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.

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SECTION 6: Accidental release measures

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

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. Store locked up. 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes
E2	200 tonnes	500 tonnes

7.3 Specific end use(s)

Recommendations: Not available.

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SECTION 7: Handling and storage

Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
voluene	Regulation on Limit Values - MAC (Austria, 12/2024) d. Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 100 ppm 4 times per shift. PEAK 15 minutes: 380 mg/m³ 4 times per shift.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 12/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. PEAK 15 minutes: 800 ppm 4 times per shift. PEAK 15 minutes: 2000 mg/m³ 4 times per shift.
Butanone	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 295 mg/m³. PEAK 30 minutes: 200 ppm 4 times per shift. PEAK 30 minutes: 590 mg/m³ 4 times per shift.
F oluene	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 77 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³.
Propan-2-ol	Limit values (Belgium, 12/2023) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1000 mg/m³.
Butanone	Limit values (Belgium, 12/2023) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.
F oluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 15 minutes: 384 mg/m³. Limit value 8 hours: 192 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.
Propan-2-ol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 980 mg/m³. Limit value 15 minutes: 1225 mg/m³.
Butanone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 590 mg/m³. Limit value 15 minutes: 885 mg/m³.

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oluene Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 384 mg/m³. STELV 15 minutes: 100 ppm. ELV 8 hours: 192 mg/m3. ELV 8 hours: 50 ppm. Propan-2-ol Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 1250 ma/m3. STELV 15 minutes: 500 ppm. ELV 8 hours: 999 mg/m3. ELV 8 hours: 400 ppm. Butanone Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 900 mg/m³. STELV 15 minutes: 300 ppm. ELV 8 hours: 600 mg/m³. ELV 8 hours: 200 ppm. **T**oluene Department of labour inspection (Cyprus, 7/2021) Absorbed throuah skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. **Butanone** Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³. TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. **T**oluene Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Propan-2-ol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 500 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 1000 mg/m3. STEL 15 minutes: 400 ppm. **Butanone** Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm. Voluene Working Environment Authority (Denmark, 12/2024) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 94 mg/m³. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Working Environment Authority (Denmark, 12/2024) Propan-2-ol TWA 8 hours: 200 ppm. TWA 8 hours: 490 mg/m³. STEL 15 minutes: 980 mg/m³.

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STEL 15 minutes: 400 ppm.

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Working Environment Authority (Denmark, 12/2024) Absorbed

through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 145 mg/m³. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm. Voluene Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Propan-2-ol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 350 mg/m³. TWA 8 hours: 150 ppm. STEL 15 minutes: 600 mg/m³. STEL 15 minutes: 250 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, Butanone 4/2024) TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm. Toluene EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Butanone EU OEL (Europe, 1/2022) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³. Toluene Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin, Ototoxicant. TWA 8 hours: 25 ppm. TWA 8 hours: 81 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 380 mg/m³. Propan-2-ol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. STEL 15 minutes: 250 ppm. STEL 15 minutes: 620 mg/m³. Institute of Occupational Health, Ministry of Social Affairs Butanone (Finland, 10/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m³. TWA 8 hours: 60 mg/m³. TWA 8 hours: 20 ppm. Voluene Ministry of Labor (France, 6/2024) Repr 2. Absorbed through skin, Ototoxicant. TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 76.8 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 384 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) Propan-2-ol Ministry of Labor (France, 6/2024) : 20/11/2025 : 15/05/2024 Version: 4 8/36

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STEL 15 minutes: 400 ppm. Notes: Permissible limit values (circulars) STEL 15 minutes: 980 mg/m³. Notes: Permissible limit values (circulars) Butanone Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 200 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 600 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 900 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 300 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) Toluene TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 380 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 380 mg/m³ 4 times per shift [Interval: 1 hour]. Propan-2-ol TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 500 mg/m³. PEAK 15 minutes: 1000 mg/m³. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 500 mg/m³. PEAK 15 minutes: 1000 mg/m³ 4 times per shift [Interval: 1 hour]. Butanone TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 600 mg/m³. PEAK 15 minutes: 600 mg/m³. TWA 8 hours: 200 ppm. PEAK 15 minutes: 200 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. TWA 8 hours: 200 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 600 mg/m³. PEAK 15 minutes: 600 mg/m³ 4 times per shift [Interval: 1 hour]. **T**oluene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. Presidential Decree 307/1986: Occupational exposure limit Propan-2-ol values (Greece, 8/2024) TWA 8 hours: 400 ppm. TWA 8 hours: 980 mg/m³. STEL 15 minutes: 500 ppm. STEL 15 minutes: 1225 mg/m³. **Butanone** Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)

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TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.

Voluene **5/2020.** (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through TWA 8 hours: 192 mg/m³. PEAK 15 minutes: 384 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm. Propan-2-ol 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through TWA 8 hours: 500 mg/m³. PEAK 15 minutes: 1000 mg/m³. PEAK 15 minutes: 400 ppm. TWA 8 hours: 200 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through Butanone skin. TWA 8 hours: 600 mg/m³. PEAK 15 minutes: 900 mg/m³. PEAK 15 minutes: 300 ppm. TWA 8 hours: 200 ppm. **T**oluene Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 188 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 94 mg/m³. TWA 8 hours: 25 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Propan-2-ol Absorbed through skin. TWA 8 hours: 490 ma/m³. TWA 8 hours: 200 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Butanone Absorbed through skin. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm. TWA 8 hours: 145 mg/m³. TWA 8 hours: 50 ppm. **T**oluene NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 192 mg/m3. OELV 15 minutes: 100 ppm. OELV 15 minutes: 384 mg/m³. Propan-2-ol NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm. Butanone NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 200 ppm. OELV 8 hours: 600 mg/m3. OELV 15 minutes: 300 ppm. OELV 15 minutes: 900 mg/m³. Voluene Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 192 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 384 mg/m³. Legislative Decree No. 81/2008. Title IX. Protection from Butanone chemical agents, carcinogens and mutagens (Italy, 9/2024) Limit value 8 hours: 200 ppm. Limit value 8 hours: 600 mg/m³.

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Short Term 15 minutes: 300 ppm. Short Term 15 minutes: 900 mg/m³.

▼oluene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 50 mg/m³.
STEL 15 minutes: 150 mg/m³.
TWA 8 hours: 14 ppm.
STEL 15 minutes: 40 ppm.

Propan-2-ol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

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

Butanone Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

STEL 15 minutes: 300 ppm. TWA 8 hours: 67 ppm. STEL 15 minutes: 900 mg/m³. TWA 8 hours: 200 mg/m³.

Foluene Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Repr.

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

Propan-2-ol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

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

Butanone Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm.

▼oluene Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

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

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

(Luxembourg, 3/2021)
TWA 8 hours: 200 ppm.
TWA 8 hours: 600 mg/m³.
STEL 15 minutes: 300 ppm.
STEL 15 minutes: 900 mg/m³.

Foluene EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. EU OEL (Europe, 1/2022)

Butanone EU OEL (Europe, 1/2022

TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)

TWA 8 hours: 150 mg/m³. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 39 ppm.

Butanone Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) Absorbed through skin.

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TWA 8 hours: 590 mg/m³. STEL 15 minutes: 900 mg/m³. TWA 8 hours: 197 ppm. STEL 15 minutes: 300 ppm.

Voluene

FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

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

Propan-2-ol

FOR-2011-12-06-1358 (Norway, 5/2024)

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

Butanone

FOR-2011-12-06-1358 (Norway, 5/2024)

TWA 8 hours: 75 ppm. TWA 8 hours: 220 mg/m³.

Voluene

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

7/2024) Absorbed through skin. TWA 8 hours: 100 mg/m³. STEL 15 minutes: 200 mg/m³.

Propan-2-ol

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) Absorbed through skin.

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

Butanone

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

7/2024) Absorbed through skin. TWA 8 hours: 450 mg/m³. STEL 15 minutes: 900 mg/m³.

Toluene

Portuguese Institute of Quality (Portugal, 11/2014) A4.

TWA 8 hours: 20 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin.

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

Propan-2-ol

Portuguese Institute of Quality (Portugal, 11/2014) A4.

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

Butanone

Portuguese Institute of Quality (Portugal, 11/2014)

TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)

STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³. TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³.

Toluene

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) R2. Absorbed through skin.

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

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

Propan-2-ol

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)

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VLA 8 hours: 200 mg/m³. VLA 8 hours: 81 ppm.

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

Butanone

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)

VLA 8 hours: 600 mg/m³. VLA 8 hours: 200 ppm.

Short term 15 minutes: 900 mg/m³. Short term 15 minutes: 300 ppm.

Voluene

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

Absorbed through skin, Inhalation sensitiser.

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

Propan-2-ol

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

Inhalation sensitiser.

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

Butanone

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

Inhalation sensitiser.

TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm.

Toluene

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Repr Dev 2. Absorbed through skin.

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

KTV 15 minutes: 384 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Propan-2-ol

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 500 mg/m³. TWA 8 hours: 200 ppm.

KTV 15 minutes: 1000 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 400 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Butanone

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm.

KTV 15 minutes: 900 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 300 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Toluene

National institute of occupational safety and health (Spain,

1/2024) Absorbed through skin. TWA 8 hours: 50 ppm.

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

Propan-2-ol

National institute of occupational safety and health (Spain, 1/2024)

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

Butanone National institute of occupational safety and health (Spain,

1/2024)

TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.

▼oluene Work environment authority Regulation 2018:1 (Sweden,

11/2022) Absorbed through skin, Ototoxicant.

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

Propan-2-ol Work environment authority Regulation 2018:1 (Sweden,

11/2022)

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

Butanone Work environment authority Regulation 2018:1 (Sweden,

11/2022)

TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.

Foluene SUVA (Switzerland, 1/2025) Develop 2. Absorbed through skin,

Ototoxicant.

TWA 8 hours: 50 ppm.
TWA 8 hours: 190 mg/m³.
STEL 15 minutes: 200 ppm.
STEL 15 minutes: 760 mg/m³.

Propan-2-ol SUVA (Switzerland, 1/2025)

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

Butanone SUVA (Switzerland, 1/2025) Absorbed through skin.

TWA 8 hours: 200 ppm. TWA 8 hours: 590 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 590 mg/m³.

Voluene EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed

through skin.

STEL 15 minutes: 384 mg/m³. TWA 8 hours: 191 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.

Propan-2-ol EH40/2005 WELs (United Kingdom (UK), 1/2020)

STEL 15 minutes: 1250 mg/m³. STEL 15 minutes: 500 ppm. TWA 8 hours: 999 mg/m³. TWA 8 hours: 400 ppm.

Butanone EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed

through skin.

STEL 15 minutes: 899 mg/m³. STEL 15 minutes: 300 ppm. TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm.

Biological exposure indices

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Product/ingredient name	Exposure indices
Toluene	•
roluerie	VGU BEI (Austria, 9/2020) BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /μl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year.
No exposure indices known.	
Foluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.
Foluene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) 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	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) 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	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) BEI: 2.6 mg/g creatinine, ethyl-methyl ketone [in urine]. Sampling time: at the end of the work shift.

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BEI: 4.08 mmol/mol creatinine, ethyl-methyl ketone [in urine]. Sampling time: at the end of the work shift.

No exposure indices known.

Toluene

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

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

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

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

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

No exposure indices known.

No exposure indices known.

No exposure indices known.

Toluene

Toluene

Voluene

Propan-2-ol

Butanone

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.

Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023)

BLV: 30 µg/l, toluene [in urine]. Sampling time: at the end of the

BLV: 20 µg/l, toluene [in blood]. Sampling time: at the beginning of the shift and at the end of the week.

BLV: 300 µg/g Cr, ortho-cresol [in urine]. Sampling time: end of shift and weekend.

DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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

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

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

TRGS 903 - BEI Values (Germany, 10/2024)

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: at the end of the shift, for long-term exposure after several previous shifts.

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

DFG BEI-values list (Germany, 7/2024)

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, 10/2024)

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.

DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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

TRGS 903 - BEI Values (Germany, 10/2024)

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

No exposure indices known.

Toluene

Propan-2-ol

Butanone

No exposure indices known.

Voluene

Propan-2-ol

Butanone

No exposure indices known.

Voluene

Propan-2-ol

Butanone

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

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

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

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

BEI: 430 μ mol/I, acetone [in urine]. Sampling time: at the end of the shift.

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

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

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.

NAOSH BGVs (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.

NAOSH BGVs (Ireland, 1/2011)

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

NAOSH BGVs (Ireland, 1/2011)

BMGV: 70 µmol/l, butan-2- one [in urine]. Sampling time: post shift.

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

BEI: 600 μg/l, toluene [in blood]. Sampling time: at the end of the exposure.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of the shift. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

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

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

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

BEI: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

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No exposure indices known.

No exposure indices known.

Toluene

Propan-2-ol

Butanone

Toluene

Propan-2-ol

Butanone

Voluene

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.

Portuguese Institute of Quality (Portugal, 11/2014)

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

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 2 mg/l, methyl ethyl ketone (MEK) [in urine]. Sampling time: end of shift.

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

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.

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

OBLV: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

BLV: 1010 µmol/mmol creatinine, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.08 µmol/mmol creatinine, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1600 mg/g creatinine, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.03 mg/g creatinine, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 13399 μ mol/I, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.3 µmol/l, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 6517 nmol/l, as toluene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2401 mg/l, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.5 mg/l, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts

BLV: 600 µg/l, as 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, 4/2024)

BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.

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

BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the

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work shift.

Propan-2-ol

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

> 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.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift.

National institute of occupational safety and health (Spain, 1/2024)

VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

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

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

National institute of occupational safety and health (Spain, 1/2024)

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

National institute of occupational safety and health (Spain, 1/2024)

VLB: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of

SUVA (Switzerland, 1/2025)

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

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

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

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

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

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

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

SUVA (Switzerland, 1/2025)

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.

SUVA (Switzerland, 1/2025)

BEI: 2 mg/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm.

Butanone

oluene

Propan-2-ol

Butanone

No exposure indices known.

Toluene

Propan-2-ol

Butanone

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Butanone

BEI: 27.7 µmol/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm.

EH40/2005 BMGVs (United Kingdom (UK), 1/2020)

BGV: 70 µmol/l, butan-2-one [in urine]. Sampling time: post shift.

Recommended monitoring procedures

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

DNELs/DMELs

Product/ingredient name

Toluene

Result

DNEL - General population - Long term - Oral

8.13 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

56.5 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

56.5 ma/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

192 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

192 ma/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

226 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation

226 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

226 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

384 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

384 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

384 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

500 ma/m³

Effects: Systemic

Propan-2-ol

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DNEL - Workers - Long term - Dermal

888 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

26 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

51 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

89 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

178 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

319 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

1000 ma/m³ Effects: Systemic

DNEL - General population - Long term - Oral

31 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

106 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

412 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation

450 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

600 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

900 ma/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

1161 mg/kg bw/day Effects: Systemic

PNECs

Butanone

Not available.

8.2 Exposure controls

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Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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

Appearance

Physical state: Liquid.Colour: VariousOdour: Slight

Odour threshold : Not available.

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SECTION 9: Physical and chemical properties

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
Butanone	79.59	175.3	
Propan-2-ol	83	181.4	

Flammability : Not available.

: Lower: 1.1% (toluene) Lower and upper explosion

Upper: 12% (Isopropyl alcohol) limit

: Closed cup: 2°C (35.6°F) Flash point

Auto-ignition temperature

Ingredient name	°C	°F	Method
B utanone	404	759.2	
Propan-2-ol	456	852.8	

Decomposition temperature : Not available. pН Not available.

Kinematic (40°C): >20.5 mm²/s **Viscosity**

Solubility(ies)

Not available.

: Not available. Solubility in water Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
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 available. : 1.4 g/cm³ **Density** Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available. : Not available. **Oxidising properties**

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

10.2 Chemical stability : The product is stable.

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

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SECTION 10: Stability and reactivity

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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

oxidising materials

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name Result

√oluene Rat - Oral - LD50

636 mg/kg

Rat - Inhalation - LC50 Vapour

49 g/m³ [4 hours]

Propan-2-ol Rabbit - Dermal - LD50

12800 mg/kg

Rat - Oral - LD50 5000 mg/kg

Toxic effects: Behavioral - General anesthetic

Butanone Rabbit - Dermal - LD50

6480 mg/kg

Rat - Oral - LD50 2737 mg/kg

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
F oluene	N/A	N/A	N/A	49	N/A
Propan-2-ol	5000	12800	N/A	N/A	N/A
Butanone	2737	6480	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name Result

Foluene Pig - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 250 uL

Rabbit - Skin - Mild irritant

Amount/concentration applied: 435 mg

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Skin - Moderate irritant <u>Amount/concentration applied</u>: 500 mg

Propan-2-ol Rabbit - Skin - Mild irritant

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Amount/concentration applied: 500 mg

Butanone Rabbit - Skin - Mild irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 14 mg

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 402 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Conclusion/Summary [Product]: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Voluene Rabbit - Eyes - Mild irritant

> Duration of treatment/exposure: 0.5 minutes Amount/concentration applied: 100 mg

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 870 ug

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg

Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI

Propan-2-ol Rabbit - Eyes - Moderate irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg

Rabbit - Eyes - Moderate irritant Amount/concentration applied: 10 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product]: Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product]: Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

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SECTION 11: Toxicological information

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

FolueneSTOT SE 3, H336 (Narcotic effects)Propan-2-olSTOT SE 3, H336 (Narcotic effects)ButanoneSTOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

▼oluene STOT RE 2, H373

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: Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness 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

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SECTION 11: Toxicological information

Ingestion : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]: 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.

Conclusion/Summary [Product]: The product does not meet the criteria to be considered as having endocrine

disrupting properties according to the criteria set out in either Regulation (EC)

No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Voluene

Result

Acute - LC50 - Fresh water

Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - Fry

Weight: 1 g

5500 μg/l [96 hours] Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata

12500 μg/l [72 hours] Effect: Growth

Chronic - NOEC - Fresh water

Daphnia - Water flea - Daphnia magna

<u>Age</u>: ≤24 hours 1000 μg/l [21 days] <u>Effect</u>: Reproduction

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: ≤24 hours 5.56 mg/l [48 hours] Effect: Intoxication

Propan-2-ol Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

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SECTION 12: Ecological information

crangon

1400000 µg/l [48 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Fish - Harlequinfish, red rasbora - Rasbora heteromorpha

Size: 1 to 3 cm

4200000 µg/l [96 hours]

Effect: Mortality

Butanone

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Larvae

Age: <24 hours

5091000 µg/l [48 hours] Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 31 days; <u>Size</u>: 22 mm; <u>Weight</u>: 0.167 g

3220000 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Marine water

Algae - Diatom - Skeletonema costatum

>500000 µg/l [96 hours] Effect: Population

Trizinc bis(orthophosphate)

Acute - EC50

Crustaceans - Ceriodaphnia dubia

0.96 mg/l [48 hours]

Acute - EC50

Algae - Selenastrum capricornutum

0.32 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
F oluene	2.73	90	Low
Propan-2-ol	0.05	-	Low
Butanone	0.3	-	Low
Trizinc bis(orthophosphate)	-	60960	High

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
Voluene	2.1	117.115
Propan-2-ol	0.54	3.4364
Butanone	1.2	15.8984

Results of PMT and vPvM assessment

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SECTION 12: Ecological information

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM	
7 oluene	No	No	No	No	No	No	No	
Propan-2-ol	No	No	No	No	No	No	No	
Butanone	No	No	No	No	No	No	No	
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No	

Mobility

: Not available.

Conclusion/Summary

: The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	В	Т	vPvB	vP	vB	
Voluene	No	N/A	No	Yes	No	N/A	No	
Propan-2-ol	No	N/A	N/A	No	N/A	N/A	N/A	
Butanone	No	N/A	N/A	No	N/A	N/A	N/A	
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No	

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
T oluene	No	No	No	No	No	No	No	
Propan-2-ol	No	No	No	No	No	No	No	
Butanone	No	No	No	No	No	No	No	
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No	

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous waste

European waste catalogue (EWC)

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

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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
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	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

Special provisions 640 (C)

Tunnel code (D/E)

ADN : 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 transported in sizes of ≤5 L or ≤5 kg.

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

transportation regulations.

14.6 Special precautions for

user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
KORRO E	≥90	3
Toluene	≥10 - ≤25	48

Labelling :

Synthetic polymer microparticles - Designation 78

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Generic identity of polymer(s)

: 3907 - Polyacetals, other polyethers and epoxide resins; polycarbonates, alkyd resins, polyallyl esters and other polyesters.

Total percentage of synthetic polymer microparticles

2.7%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Other EU regulations

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c E2

National regulations

<u>Austria</u>

organic solvents

Belgium

Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Silice	Listed
Noirs de charbon	Listed

Czech Republic

Storage code : I

Denmark

Fire class : 🔀

Executive Order No. 1795/2015

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

MAL-code : 5-6

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

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

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

MAL-code: 5-6

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.

Air-supplied full mask and protective clothing must be worn.

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 spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Low-boiling liquids

: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.

Restrictions on use

Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

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List of undesirable substances

: Listed

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated

by Danish working environment legislation on cancer risks.

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 : Toluene Propan-2-ol

RG 4bis, RG 84

Propan-2-ol RG 84

Butanone RG 84

Reinforced medical surveillance

medi

: Act of July 11, 1977 determining the list of activities which require reinforced

medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 3 **Hazardous incident ordinance**

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3
E2	1.3.2

Hazard class for water : 3

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5 .2.1	Total dust	55.6
5.2.2 [III]	Dusty inorganic substances	0.48
5.2.5	Organic substances	40.4
5.2.5 [I]	Organic substances	40.3
5.2.10	Soil polluting substances	3.5

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

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

Ingredient name	Carcinogen	•	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
tolueen	-	-	-	Development 2	-
xyleen	-	-	-	Development 2	-
silica kristallijn;	Listed	-	-	-	-
respirabel stof					

Water Discharge Policy

(ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/

toxicity or persistence). Decontamination effort: Z

Norway

<u>Sweden</u>

Flammable liquid class

(SRVFS 2005:10)

Switzerland VOC content

<u>izeriano</u>

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

: VOC (w/w): 40.4%

: 1

Not listed.

Montreal Protocol

Not listed.

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Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification	
Flam. Liq. 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	

Full text of abbreviated H statements

⊬ 225	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.
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	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
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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SECTION 16: Other information

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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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