

SAFETY DATA SHEET



TEKNOZINC SP - All variants

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

1.1 Product identifier

Product name : TEKNOZINC SP - All variants

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 responsible for this SDS : Prod-safe@teknos.com

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. 3, H226

Skin Irrit. 2, H315

Eye Dam. 1, H318

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves. Wear eye or face 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.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage : Not applicable.

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TEKNOZINC SP - All variants

Label No :34637

SECTION 2: Hazards identification

Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: Cyclohexanone
Supplemental label elements	:
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Zinc powder - zinc dust (stabilized)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6	≥50 - ≤75	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1620 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]

SECTION 3: Composition/information on ingredients

bisphenol A	REACH #: 01-2119457856-23 EC: 201-245-8 CAS: 80-05-7 Index: 604-030-00-0	<0.1	Aquatic Chronic 3, H412 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 10	[1] [2] [3] [4]
Lead (Pb)	EC: 231-100-4 CAS: 7439-92-1 Index: 082-013-00-1	<0.01	Repr. 1A, H360FD Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	Repr. 1A, H360D: C ≥ 0.03% M [Acute] = 10 M [Chronic] = 100	[1] [2] [4]

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern - Endocrine disrupting properties
- [4] Substance with carcinogenic, mutagenic or reproductive toxicity properties

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

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** : 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 very 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
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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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). 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

SECTION 7: Handling and storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c E1	5000 tonnes 100 tonnes	50000 tonnes 200 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

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
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m ³ . CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 550 mg/m ³ 8 times per shift.
Xylene	Regulation on Limit Values - MAC (Austria, 12/2024) [Xylol (alle Isomeren, rein)] PEAK 15 minutes: 442 mg/m ³ 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m ³ .
Cyclohexanone	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 5 ppm. PEAK 15 minutes: 80 mg/m ³ 4 times per shift. TWA 8 hours: 20 mg/m ³ . PEAK 15 minutes: 20 ppm 4 times per shift.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 440 mg/m ³ . CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m ³ 8 times per shift.
bisphenol A	Regulation on Limit Values - MAC (Austria, 12/2024) F. Sensitiser. TWA 8 hours: 2 mg/m ³ . Form: Inhalable fraction. CEIL: 5 mg/m ³ . Form: Inhalable fraction.
Lead (Pb)	Regulation on Limit Values - MAC (Austria, 12/2024) [Blei und seine Verbindungen außer Bleiarsenat, Bleichromat, Bleichromatoxid und Alkylbleiverbindungen] F, D, L. TWA 8 hours: 0.1 mg/m ³ (measured as Pb). Form: Inhalable fraction. PEAK 15 minutes: 0.4 mg/m ³ (measured as Pb), 4 times per shift.

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2-Methoxy-1-methylethyl acetate

Xylene

Cyclohexanone

Ethylbenzene

bisphenol A

Lead (Pb)

2-Methoxy-1-methylethyl acetate

Xylene

Cyclohexanone

Ethylbenzene

bisphenol A

Lead (Pb)

Form: Inhalable fraction.

Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 50 ppm.

TWA 8 hours: 275 mg/m³.

STEL 15 minutes: 100 ppm.

STEL 15 minutes: 550 mg/m³.

Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skin.

TWA 8 hours: 50 ppm.

TWA 8 hours: 221 mg/m³.

STEL 15 minutes: 100 ppm.

STEL 15 minutes: 442 mg/m³.

Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 10 ppm.

TWA 8 hours: 40.8 mg/m³.

STEL 15 minutes: 20 ppm.

STEL 15 minutes: 81.6 mg/m³.

Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 20 ppm.

TWA 8 hours: 87 mg/m³.

STEL 15 minutes: 125 ppm.

STEL 15 minutes: 551 mg/m³.

Limit values (Belgium, 12/2023)

TWA 8 hours: 2 mg/m³.

Biological limit values (Belgium, 12/2023) [Lood en ionenverbindingen van lood]

OEL surveillance 8 hours: 0.075 mg/m³ (lead).

Limit values (Belgium, 12/2023) [Anorganisch lood en verbindingen daarvan]

TWA 8 hours: 0.15 mg/m³ (as Pb).

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.

Limit value 8 hours: 275 mg/m³.

Limit value 15 minutes: 550 mg/m³.

Limit value 15 minutes: 100 ppm.

Limit value 8 hours: 50 ppm.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene] Absorbed through skin.

Limit value 8 hours: 221 mg/m³.

Limit value 15 minutes: 442 mg/m³.

Limit value 15 minutes: 100 ppm.

Limit value 8 hours: 50 ppm.

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: 81.6 mg/m³.

Limit value 8 hours: 40.8 mg/m³.

Limit value 15 minutes: 20 ppm.

Limit value 8 hours: 10 ppm.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.

Limit value 8 hours: 435 mg/m³.

Limit value 15 minutes: 545 mg/m³.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (OEL). (Bulgaria, 4/2024)

Limit value 8 hours: 2 mg/m³. Form: inhalable fraction..



Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (BEI). (Bulgaria, 4/2024) [lead and its ionic compounds]

OEL surveillance 8 hours: 0.05 mg/m³ (lead).

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2-Methoxy-1-methylethyl acetate	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (OEL). (Bulgaria, 4/2024) [inorganic lead and its compounds] Limit value 8 hours: 0.05 mg/m³.</p> <p>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: 550 mg/m³. STELV 15 minutes: 100 ppm. ELV 8 hours: 275 mg/m³. ELV 8 hours: 50 ppm.</p>
Xylene	<p>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [ksilen] Absorbed through skin. STELV 15 minutes: 442 mg/m³. STELV 15 minutes: 100 ppm. ELV 8 hours: 221 mg/m³. ELV 8 hours: 50 ppm.</p>
Cyclohexanone	<p>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: 81.6 mg/m³. STELV 15 minutes: 20 ppm. ELV 8 hours: 40.8 mg/m³. ELV 8 hours: 10 ppm.</p>
Ethylbenzene	<p>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: 884 mg/m³. STELV 15 minutes: 200 ppm. ELV 8 hours: 442 mg/m³. ELV 8 hours: 100 ppm.</p>
bisphenol A	<p>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Repr 1B. Skin sensitiser. ELV 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [olovo i njegov i ioni spojevi] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [olovo i njegov i anorganski spojevi] Repr 1A. ELV 8 hours: 0.15 mg/m³.</p>
2-Methoxy-1-methylethyl acetate	<p>Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³.</p>
Xylene	<p>Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά] Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³.</p>
Cyclohexanone	<p>Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 20 ppm. STEL 15 minutes: 81.6 mg/m³. TWA 8 hours: 10 ppm. TWA 8 hours: 40.8 mg/m³.</p>
Ethylbenzene	<p>Department of labour inspection (Cyprus, 7/2021) Absorbed</p>

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	through skin. STEL 15 minutes: 884 mg/m ³ . TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm.
bisphenol A	Department of labour inspection (Cyprus, 7/2021) TWA 8 hours: 2 mg/m ³ . Form: Inhalable fraction..
Lead (Pb)	Department of labour inspection (Cyprus, 7/2021) [Ανώργανος μόλυβδος και οι ενώσεις του] TWA 8 hours: 0.15 mg/m ³ .
 2-Methoxy-1-methylethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 275 mg/m ³ . TWA 8 hours: 50 ppm. STEL 15 minutes: 550 mg/m ³ . STEL 15 minutes: 100 ppm.
Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [xylen] Absorbed through skin. TWA 8 hours: 200 mg/m ³ . TWA 8 hours: 45.33 ppm. STEL 15 minutes: 400 mg/m ³ . STEL 15 minutes: 90.66 ppm.
Cyclohexanone	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 40 mg/m ³ . TWA 8 hours: 9.8 ppm. STEL 15 minutes: 80 mg/m ³ . STEL 15 minutes: 19.6 ppm.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 200 mg/m ³ . TWA 8 hours: 45.33 ppm. STEL 15 minutes: 500 mg/m ³ . STEL 15 minutes: 113.32 ppm.
bisphenol A	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Repr. Sensitiser. TWA 8 hours: 2 mg/m ³ . Form: dust, aerosol, inhalable fraction. STEL 15 minutes: 5 mg/m ³ . Form: dust, aerosol, inhalable fraction.
Lead (Pb)	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Repr. TWA 8 hours: 0.05 mg/m ³ . STEL 15 minutes: 0.2 mg/m ³ .
 2-Methoxy-1-methylethyl acetate	Working Environment Authority (Denmark, 12/2024) [2-methoxy-1-methylethylacetat] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m ³ . STEL 15 minutes: 550 mg/m ³ . STEL 15 minutes: 100 ppm.
Xylene	Working Environment Authority (Denmark, 12/2024) [xylen, alle isomere] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m ³ . STEL 15 minutes: 442 mg/m ³ . STEL 15 minutes: 100 ppm.
Cyclohexanone	Working Environment Authority (Denmark, 12/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 41 mg/m ³ . STEL 15 minutes: 81.6 mg/m ³ . STEL 15 minutes: 20 ppm.
Ethylbenzene	Working Environment Authority (Denmark, 12/2024) K.

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bisphenol A	<p>Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 217 mg/m³. STEL 15 minutes: 434 mg/m³. STEL 15 minutes: 100 ppm.</p> <p>Working Environment Authority (Denmark, 12/2024) TWA 8 hours: 2 mg/m³. Form: suspended dust. STEL 15 minutes: 4 mg/m³. Form: suspended dust.</p>
Lead (Pb)	<p>Working Environment Authority (Denmark, 12/2024) TWA 8 hours: 0.05 mg/m³ (calculated as Pb). Form: powder, dust, fume. STEL 15 minutes: 0.1 mg/m³ (calculated as Pb). Form: powder, dust, fume.</p>
2-Methoxy-1-methylethyl acetate	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm.</p>
Xylene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen] Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 450 mg/m³. TWA 8 hours: 200 mg/m³.</p>
Cyclohexanone	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin. TWA 8 hours: 40.8 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 81.6 mg/m³. STEL 15 minutes: 20 ppm.</p>
Ethylbenzene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm.</p>
bisphenol A	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>Biological exposure limits, Regulation number 193 (Estonia, 4/2024) [Plii ja selleioonsete ühendite] OEL surveillance 8 hours: 75 µg/m³ (lead). Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [plii ja anorgaanilised ühendid] Repr. TWA 8 hours: 0.1 mg/m³ (calculated as Pb). Form: Total dust. TWA 8 hours: 0.05 mg/m³ (calculated as Pb). Form: Respirable dust.</p>
2-Methoxy-1-methylethyl acetate	<p>EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.</p>
Xylene	<p>EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.</p>
Cyclohexanone	<p>EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 40.8 mg/m³.</p>



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Ethylbenzene	<p>STEL 15 minutes: 20 ppm. STEL 15 minutes: 81.6 mg/m³.</p> <p>EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.</p>
bisphenol A	<p>EU OEL (Europe, 1/2022) TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] OEL surveillance 8 hours: 0.015 mg/m³ (lead). EU OEL (Europe, 3/2024) [lead and its inorganic compounds] Non-threshold reprotoxic substance.. TWA 8 hours: 0.03 mg/m³.</p>
2-Methoxy-1-methylethyl acetate	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.</p>
Xylene	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Ksyleeni] Absorbed through skin. STEL 15 minutes: 440 mg/m³. TWA 8 hours: 220 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.</p>
Cyclohexanone	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 41 mg/m³. STEL 15 minutes: 20 ppm. STEL 15 minutes: 82 mg/m³.</p>
Ethylbenzene	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 880 mg/m³.</p>
bisphenol A	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 2 mg/m³.</p>
Lead (Pb)	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) CARC. Ototoxicant. TWA 8 hours: 0.1 mg/m³ (calculated as Pb).</p>
2-Methoxy-1-methylethyl acetate	<p>Ministry of Labor (France, 6/2024) Absorbed through skin. STEL 15 minutes: 550 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) TWA 8 hours: 275 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Xylene	<p>Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs] Absorbed through skin. STEL 15 minutes: 442 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) TWA 8 hours: 221 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values</p>



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Cyclohexanone	(article R. 4412-149 of the Labor Code) Ministry of Labor (France, 6/2024) TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 40.8 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 81.6 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
Ethylbenzene	Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 88.4 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 442 mg/m ³ . 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)
bisphenol A	Ministry of Labor (France, 6/2024) Repr 1B. TWA 8 hours: 2 mg/m ³ . Form: Dust. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
Lead (Pb)	Ministry of Labor (France, 6/2024) [Plomb métallique et composés] TWA 8 hours: 0.1 mg/m ³ (as Pb). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
2-Methoxy-1-methylethyl acetate	TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 270 mg/m ³ . PEAK 15 minutes: 270 mg/m ³ . TWA 8 hours: 50 ppm. PEAK 15 minutes: 50 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 50 ppm. PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 270 mg/m ³ . PEAK 15 minutes: 270 mg/m ³ 4 times per shift [Interval: 1 hour].
Xylene	TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin. TWA 8 hours: 220 mg/m ³ . PEAK 15 minutes: 440 mg/m ³ . TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) [Xylene] Develop D. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 220 mg/m ³ . PEAK 15 minutes: 440 mg/m ³ 4 times per shift [Interval: 1 hour].
Cyclohexanone	TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 80 mg/m ³ . PEAK 15 minutes: 80 mg/m ³ . TWA 8 hours: 20 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2024) Carc 3B. Absorbed through skin.
Ethylbenzene	TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 88 mg/m ³ . PEAK 15 minutes: 176 mg/m ³ . TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2024) Carc 4, Develop C. Absorbed through skin. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].



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bisphenol A	<p>PEAK 15 minutes: 176 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 88 mg/m³. TWA 8 hours: 20 ppm.</p> <p>TRGS 900 OEL (Germany, 6/2024) Skin sensitiser. TWA 8 hours: 2 mg/m³. Form: Inhalable fraction. PEAK 15 minutes: 5 mg/m³. Form: Inhalable fraction.</p> <p>DFG MAC-values list (Germany, 7/2024) Develop C. Phototoxic. TWA 8 hours: 5 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 5 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.</p>
Lead (Pb)	<p>DFG MAC-values list (Germany, 7/2024) [Lead and its inorganic compounds except lead arsenate and lead chromate] Carc 4, Muta 3A, Develop A. PEAK 15 minutes: 0.032 mg/m³ (as Pb), 4 times per shift [Interval: 1 hour]. Form: inhalable dust. TWA 8 hours: 0.004 mg/m³ (as Pb). Form: inhalable dust.</p>
 Methoxy-1-methylethyl acetate	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.</p>
Xylene	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [ξυλόλια (όλα τα ισομερή)] Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 650 mg/m³.</p>
Cyclohexanone	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 200 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 400 mg/m³.</p>
Ethylbenzene	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m³.</p>
bisphenol A	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [μόλυβδος και ανόργανες ενώσεις του] TWA 8 hours: 0.15 mg/m³. Presidential Decree 338/2001: Biological limit values (Greece, 8/2024) [lead and its inorganic compounds] OEL surveillance 8 hours: 0.075 mg/m³ (lead).</p>
 Methoxy-1-methylethyl acetate	<p>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) TWA 8 hours: 275 mg/m³. PEAK 15 minutes: 550 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.</p>
Xylene	<p>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [xilol izomerek keveréke] Absorbed through skin. TWA 8 hours: 221 mg/m³. PEAK 15 minutes: 442 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.</p>
Cyclohexanone	<p>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through</p>

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Ethylbenzene	<p>skin. TWA 8 hours: 40.8 mg/m³. PEAK 15 minutes: 81.6 mg/m³. PEAK 15 minutes: 20 ppm. TWA 8 hours: 10 ppm.</p> <p>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin. TWA 8 hours: 442 mg/m³. PEAK 15 minutes: 884 mg/m³. PEAK 15 minutes: 200 ppm. TWA 8 hours: 100 ppm.</p>
bisphenol A	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Repr.(1B). TWA 8 hours: 2 mg/m ³ .
Lead (Pb)	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [ólom és szervetlen vegyületei] TWA 8 hours: 0.15 mg/m ³ (as Pb).
 2-Methoxy-1-methylethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 550 mg/m ³ . STEL 15 minutes: 100 ppm. TWA 8 hours: 275 mg/m ³ . TWA 8 hours: 50 ppm.
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Xýlen, allir isómerar] Absorbed through skin. STEL 15 minutes: 442 mg/m ³ . STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m ³ . TWA 8 hours: 25 ppm.
Cyclohexanone	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 81.6 mg/m ³ . STEL 15 minutes: 20 ppm. TWA 8 hours: 40 mg/m ³ . TWA 8 hours: 10 ppm.
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 884 mg/m ³ . STEL 15 minutes: 200 ppm. TWA 8 hours: 200 mg/m ³ . TWA 8 hours: 50 ppm.
bisphenol A	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) TWA 8 hours: 2 mg/m ³ .
Lead (Pb)	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Blý, ólífræn sambönd] TWA 8 hours: 0.05 mg/m ³ (as Pb). Form: powder, dust and fume.
 2-Methoxy-1-methylethyl acetate	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 275 mg/m ³ . OELV 15 minutes: 100 ppm. OELV 15 minutes: 550 mg/m ³ .
Xylene	NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m ³ . OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m ³ .
Cyclohexanone	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 10 ppm. OELV 8 hours: 40.8 mg/m ³ . OELV 15 minutes: 20 ppm.


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Ethylbenzene	<p>OELV 15 minutes: 81.6 mg/m³. NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m³. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m³.</p>
bisphenol A	<p>NAOSH (Ireland, 4/2024) Repr 1B. Sensitiser. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>NAOSH (Ireland, 4/2024) [inorganic lead and its compounds] Repr 1A. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 0.15 mg/m³. NAOSH (Ireland, 4/2024) [lead and its ionic compounds] OEL surveillance 8 hours: 0.075 mg/m³ (lead).</p>
 Methoxy-1-methylethyl acetate	<p>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: 275 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 550 mg/m³.</p>
Xylene	<p>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) [xylene, isomeri misti, puro] Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 221 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 442 mg/m³.</p>
Cyclohexanone	<p>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 10 ppm. Limit value 8 hours: 40.8 mg/m³. Short Term 15 minutes: 20 ppm. Short Term 15 minutes: 81.6 mg/m³.</p>
Ethylbenzene	<p>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 100 ppm. Limit value 8 hours: 442 mg/m³. Short Term 15 minutes: 200 ppm. Short Term 15 minutes: 884 mg/m³.</p>
bisphenol A	<p>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 2 mg/m³. Form: inhalable fraction.</p>
Lead (Pb)	<p>Legislative Decree No. 81/2008. Annex XXXIX. Mandatory biological limit values (Italy, 9/2024) [piombo e suoi composti ionici] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) [piombo inorganico e i suoi composti] Limit value 8 hours: 0.15 mg/m³.</p>
 Methoxy-1-methylethyl acetate	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.</p>
Xylene	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</p>

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Cyclohexanone	<p>[Ksilols] Absorbed through skin. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.</p> <p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 40.8 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 20 ppm. STEL 15 minutes: 81.6 mg/m³.</p>
Ethylbenzene	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.</p>
bisphenol A	<p>EU OEL (Europe, 1/2022) TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] OEL surveillance 8 hours: 0.015 mg/m³ (lead). EU OEL (Europe, 3/2024) [lead and its inorganic compounds] Non-threshold reprotoxic substance.. TWA 8 hours: 0.03 mg/m³.</p>
2-Methoxy-1-methylethyl acetate	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 250 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 400 mg/m³. STEL 15 minutes: 75 ppm.</p>
Xylene	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [ksilenas, mišrūs izomerai, grynas] Absorbed through skin. STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m³.</p>
Cyclohexanone	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 40.8 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 81.6 mg/m³. STEL 15 minutes: 20 ppm.</p>
Ethylbenzene	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm.</p>
bisphenol A	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Repr. Sensitiser. TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>Minister of Social Security and Labor and Minister of Health Protection, Order No. 97/406 (Lithuania, 1/2024) [Švinas ir jo joniniai junginiai] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [švinas ir jo neorganiniai junginiai] Repr. TWA 8 hours: 0.07 mg/m³ (as Pb). Form: Respirable fraction. TWA 8 hours: 0.15 mg/m³ (as Pb). Form: Inhalable fraction.</p>

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 2-Methoxy-1-methylethyl acetate

Xylene

Cyclohexanone

Ethylbenzene

bisphenol A

Lead (Pb)

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin.

TWA 8 hours: 50 ppm.

TWA 8 hours: 275 mg/m³.

STEL 15 minutes: 100 ppm.

STEL 15 minutes: 550 mg/m³.

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures]

Absorbed through skin.

TWA 8 hours: 50 ppm.

TWA 8 hours: 221 mg/m³.

STEL 15 minutes: 100 ppm.

STEL 15 minutes: 442 mg/m³.

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin.

TWA 8 hours: 10 ppm.

TWA 8 hours: 40.8 mg/m³.

STEL 15 minutes: 20 ppm.

STEL 15 minutes: 81.6 mg/m³.

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin.

TWA 8 hours: 100 ppm.

TWA 8 hours: 442 mg/m³.

STEL 15 minutes: 200 ppm.

STEL 15 minutes: 884 mg/m³.

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)

TWA 8 hours: 2 mg/m³. Form: inhalable fraction.

Grand-Duchy Regulation 2016. Biological limit values. Annex II (Luxembourg, 3/2021) [Plomb et ses composés ioniques]

OEL surveillance 8 hours: 0.075 mg/m³ (lead).

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [plomb métallique et ses composés]

TWA 8 hours: 0.15 mg/m³.

 2-Methoxy-1-methylethyl acetate

Xylene

Cyclohexanone

Ethylbenzene

bisphenol A

Lead (Pb)

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

TWA 8 hours: 50 ppm.

TWA 8 hours: 275 mg/m³.

STEL 15 minutes: 100 ppm.

STEL 15 minutes: 550 mg/m³.

EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin.

TWA 8 hours: 50 ppm.

TWA 8 hours: 221 mg/m³.

STEL 15 minutes: 100 ppm.

STEL 15 minutes: 442 mg/m³.

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

TWA 8 hours: 10 ppm.

TWA 8 hours: 40.8 mg/m³.

STEL 15 minutes: 20 ppm.

STEL 15 minutes: 81.6 mg/m³.

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

TWA 8 hours: 100 ppm.

TWA 8 hours: 442 mg/m³.

STEL 15 minutes: 200 ppm.

STEL 15 minutes: 884 mg/m³.

EU OEL (Europe, 1/2022)

TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.

EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds]

OEL surveillance 8 hours: 0.015 mg/m³ (lead).

EU OEL (Europe, 3/2024) [lead and its inorganic compounds]


Non-threshold reprotoxic substance..

TWA 8 hours: 0.03 mg/m³.


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2-Methoxy-1-methylethyl acetate	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) TWA 8 hours: 550 mg/m ³ . TWA 8 hours: 100 ppm.
Xylene	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren] Absorbed through skin. TWA 8 hours: 210 mg/m ³ . STEL 15 minutes: 442 mg/m ³ . STEL 15 minutes: 100 ppm. TWA 8 hours: 47.5 ppm.
Cyclohexanone	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. STEL 15 minutes: 50 mg/m ³ . STEL 15 minutes: 12.3 ppm.
Ethylbenzene	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 215 mg/m ³ . STEL 15 minutes: 430 mg/m ³ . STEL 15 minutes: 97.3 ppm. TWA 8 hours: 48.6 ppm.
bisphenol A	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Repr B3. TWA 8 hours: 2 mg/m ³ . Form: inhalable dust.
Lead (Pb)	Ministry of Social Affairs and Employment, Biological limit values (Netherlands, 5/2024) [lood] OEL for frequency of measurement 8 hours: 100 µg/m ³ (lead). Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [lood en anorganische loodverbindingen] Repr B3. TWA 8 hours: 0.15 mg/m ³ .
2-Methoxy-1-methylethyl acetate	FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m ³ .
Xylene	FOR-2011-12-06-1358 (Norway, 5/2024) [xylén] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m ³ .
Cyclohexanone	FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 40 mg/m ³ . STEL 15 minutes: 80 mg/m ³ . STEL 15 minutes: 20 ppm.
Ethylbenzene	FOR-2011-12-06-1358 (Norway, 5/2024) Carc. Absorbed through skin. TWA 8 hours: 5 ppm. TWA 8 hours: 20 mg/m ³ .
bisphenol A	FOR-2011-12-06-1358 (Norway, 5/2024) Repr. Sensitiser. TWA 8 hours: 2 mg/m ³ . Form: inhalable.
Lead (Pb)	FOR-2011-12-06-1358 (Norway, 5/2024) [bly og uorganiske blyforbindelser] Repr. TWA 8 hours: 0.05 mg/m ³ (calculated as Pb). Form: Dust and fumes.
2-Methoxy-1-methylethyl acetate	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: 260 mg/m ³ . STEL 15 minutes: 520 mg/m ³ .
Xylene	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations

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Cyclohexanone	<p>and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin. TWA 8 hours: 100 mg/m³. STEL 15 minutes: 200 mg/m³.</p> <p>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: 40 mg/m³. STEL 15 minutes: 80 mg/m³.</p> <p>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: 200 mg/m³. STEL 15 minutes: 400 mg/m³.</p> <p>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)</p> <p>TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p> <p>Regulation of the Ministry of Health of September 16, 2016, Safety and occupational health related to the presence of chemical agents in the workplace (Poland, 7/2024) [ołów i jego związki nieorganiczne] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Form: inhalable fraction.</p> <p>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) [Lead – inorganic compounds] TWA 8 hours: 0.05 mg/m³ (calculated as Pb). Form: Inhalable fraction.</p> <p>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³.</p> <p>Portuguese Institute of Quality (Portugal, 11/2014) [xileno (isómeros o, m & p)] A4. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.</p> <p>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [xilenos] Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³.</p> <p>Portuguese Institute of Quality (Portugal, 11/2014) A3. Absorbed through skin. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm.</p> <p>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin. STEL 15 minutes: 20 ppm.</p>
Ethylbenzene	
bisphenol A	
Lead (Pb)	
 2-Methoxy-1-methylethyl acetate	
Xylene	
Cyclohexanone	

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Ethylbenzene	<p>STEL 15 minutes: 81.6 mg/m³. TWA 8 hours: 10 ppm. TWA 8 hours: 40.8 mg/m³.</p> <p>Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm.</p> <p>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³.</p>
bisphenol A	<p>Decree-Law 301/2000 - Occupational exposure limits for carcinogenic and mutagenic agents (Portugal, 12/2024) TWA 8 hours: 2 mg/m³. Form: inhalable fraction.</p> <p>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) TWA 8 hours: 2 mg/m³. Form: inhalable fraction.</p>
Lead (Pb)	<p>Portuguese Institute of Quality (Portugal, 11/2014) [chumbo elementar e compostos inorgânicos] A3. TWA 8 hours: 0.05 mg/m³ (expressed as Pb).</p> <p>Decree-Law 301/2000 - Occupational exposure limits for carcinogenic and mutagenic agents (Portugal, 12/2024) [Chumbo metálico e respetivos compostos] TWA 8 hours: 0.15 mg/m³.</p> <p>Decree-Law 301/2000 - Biological limit values and health surveillance measures for carcinogenic or mutagenic agents (Portugal, 12/2024) [chumbo e respetivos compostos iónicos] OEL surveillance 8 hours: 0.075 mg/m³.</p> <p>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [chumbo metálico e respetivos compostos iónicos] TWA 8 hours: 0.15 mg/m³.</p>
 -Methoxy-1-methylethyl acetate	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 275 mg/m³. VLA 8 hours: 50 ppm. Short term 15 minutes: 550 mg/m³. Short term 15 minutes: 100 ppm.</p>
Xylene	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen] Absorbed through skin. VLA 8 hours: 221 mg/m³. VLA 8 hours: 50 ppm. Short term 15 minutes: 442 mg/m³. Short term 15 minutes: 100 ppm.</p>
Cyclohexanone	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 40.8 mg/m³. VLA 8 hours: 10 ppm. Short term 15 minutes: 81.6 mg/m³. Short term 15 minutes: 20 ppm.</p>
Ethylbenzene	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 442 mg/m³. VLA 8 hours: 100 ppm. Short term 15 minutes: 884 mg/m³. Short term 15 minutes: 200 ppm.</p>
bisphenol A	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) R1B. VLA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [plumbul și compușii săi ionici] OEL surveillance 8 hours: 0.075 mg/m³ (lead).</p> <p>HG 1218/2006, Annex 1, with subsequent modifications and</p>

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	<p>additions (Romania, 3/2024) [Plumb și compuși] VLA 8 hours: 0.05 mg/m³. Short term 15 minutes: 0.1 mg/m³. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [plumb și compușii săi anorganici] R1A. VLA 8 hours: 0.15 mg/m³ (expressed in Pb).</p>
2-Methoxy-1-methylethyl acetate	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm.</p>
Xylene	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén, zmiešané izoméry] Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 221 mg/m³ (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers). STEL 15 minutes: 442 mg/m³ (xylene, mixed isomers). STEL 15 minutes: 100 ppm (xylene, mixed isomers).</p>
Cyclohexanone	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 40.8 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 81.6 mg/m³. STEL 15 minutes: 20 ppm.</p>
Ethylbenzene	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm.</p>
bisphenol A	<p>EU OEL (Europe, 1/2022) TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [olovo a jeho zlúčeniny] Repr_1A. OEL surveillance 8 hours: 0.075 mg/m³ (as lead). Government regulation SR c. 355/2006 (Slovakia, 6/2024) [olovo a jeho organické zlúčeniny] Inhalation sensitiser. TWA 8 hours: 0.05 mg/m³ (Lead and its organic compounds).</p>
2-Methoxy-1-methylethyl acetate	<p>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: 275 mg/m³. TWA 8 hours: 50 ppm. KTV 15 minutes: 550 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].</p>
Xylene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen] Absorbed through skin. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm. KTV 15 minutes: 442 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].</p>
Cyclohexanone	<p>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: 40.8 mg/m³.</p>

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Ethylbenzene	<p>TWA 8 hours: 10 ppm. KTV 15 minutes: 81.6 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 20 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p> <p>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: 442 mg/m³. TWA 8 hours: 100 ppm. KTV 15 minutes: 884 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 200 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
bisphenol A	<p>Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024) Repr Fer 1B. Peak 15 minutes: 2 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction. TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024) [svinec, anorganski in njegove spojine] Repr Fer 1A, Repr Dev 1A. Peak 15 minutes: 0.4 mg/m³ (calculated as Pb), 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction. TWA 8 hours: 0.1 mg/m³ (calculated as Pb). Form: Inhalable fraction.</p>
2-Methoxy-1-methylethyl acetate	<p>National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.</p>
Xylene	<p>National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.</p>
Cyclohexanone	<p>National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 41 mg/m³. STEL 15 minutes: 82 mg/m³. STEL 15 minutes: 20 ppm.</p>
Ethylbenzene	<p>National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.</p>
bisphenol A	<p>National institute of occupational safety and health (Spain, 1/2024) TR1B. Skin sensitiser. TWA 8 hours: 2 mg/m³.</p>
Lead (Pb)	<p>National institute of occupational safety and health (Spain, 1/2024) Develop 1A. TWA 8 hours: 0.15 mg/m³.</p>

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2-Methoxy-1-methylethyl acetate	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.</p>
Xylene	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.</p>
Cyclohexanone	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 41 mg/m³. STEL 15 minutes: 20 ppm. STEL 15 minutes: 81 mg/m³.</p>
Ethylbenzene	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.</p>
bisphenol A	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) Repr. TWA 8 hours: 2 mg/m³. Form: inhalable fraction.</p>
Lead (Pb)	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [lead, and inorg. compounds] Repr. Ototoxicant. TWA 8 hours: 0.1 mg/m³ (as Pb). Form: inhalable fraction. TWA 8 hours: 0.05 mg/m³ (as Pb). Form: respirable fraction.</p>
2-Methoxy-1-methylethyl acetate	<p>SUVA (Switzerland, 1/2025) TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 275 mg/m³.</p>
Xylene	<p>SUVA (Switzerland, 1/2025) [Xylol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 440 mg/m³.</p>
Cyclohexanone	<p>SUVA (Switzerland, 1/2025) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 100 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 200 mg/m³.</p>
Ethylbenzene	<p>SUVA (Switzerland, 1/2025) Absorbed through skin , Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 220 mg/m³.</p>
bisphenol A	<p>SUVA (Switzerland, 1/2025) Repr 1B. Sensitiser. TWA 8 hours: 3 mg/m³. Form: Inhalable fraction.</p>
Lead (Pb)	<p>SUVA (Switzerland, 1/2025) [Blei und seine Verbindungen, ausser Alkylverbindungen] Carc 2, Repr 1A. STEL 15 minutes: 0.8 mg/m³ (calculated as Pb). Form: Inhalable fraction. TWA 8 hours: 0.1 mg/m³ (calculated as Pb). Form: Inhalable fraction.</p>

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2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 548 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 274 mg/m ³ . STEL 15 minutes: 100 ppm.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL 15 minutes: 441 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m ³ . STEL 15 minutes: 100 ppm.
Cyclohexanone	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 20 ppm. TWA 8 hours: 10 ppm. STEL 15 minutes: 82 mg/m ³ . TWA 8 hours: 41 mg/m ³ .
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 552 mg/m ³ . STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m ³ .
bisphenol A	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 2 mg/m ³ .
Lead (Pb)	EH40/2005 WELs (United Kingdom (UK), 1/2020) Carc. TWA 8 hours: 0.15 mg/m ³ .

Biological exposure indices

Product/ingredient name	Exposure indices
Xylene	VGU BEI (Austria, 9/2020) [Xylolol] BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
Lead (Pb)	VGU BEI (Austria, 9/2020) [Blei, seine Legierungen oder Verbindungen] BEI Inadequacy - women under 50: 10 mg/l, urinary delta-aminolevulinic acid [in urine]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work two weeks. BEI Inadequacy - men, women over 50: 20 mg/l, urinary delta-aminolevulinic acid [in urine]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work two weeks. BEI Inadequacy - women under 50: 45 µg/100 ml, blood lead [in blood]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work two weeks. BEI Inadequacy - men, women over 50: 70 µg/100 ml, blood lead [in blood]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work two weeks. BEI Fitness - women under 50: 6 mg/l, urinary delta-aminolevulinic acid [in urine]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks. BEI Fitness - men, women over 50: 10 mg/l, urinary delta-aminolevulinic acid [in urine]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks. BEI Fitness: 30 µg/100 ml, blood lead [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

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BEI Fitness: 120 µg/100 ml RBC, erythrocyte protoporphyrin [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - men: 35 %, hematocrit [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - women: 30 %, hematocrit [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

Lead (Pb)

Biological limit values (Belgium, 12/2023) [Lood en ionenverbindingen van lood]

BEI surveillance: 40 µg /100 ml, lead [in blood].
BLV: 70 µg /100 ml, lead [in blood].

Ethylbenzene

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Notes: significant skin resorption possible

BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.

Lead (Pb)

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (BEI). (Bulgaria, 4/2024) [lead and its ionic compounds]

BEI surveillance: <40 µg/100 ml, lead [in blood].
BEI: 400 µg/l, lead [in blood].
BEI - women under 45: 300 µg/l, lead [in blood].

Xylene

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [ksilen]

BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.
BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.
BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

Ethylbenzene

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)

BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during

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Lead (Pb)

exposure.

BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure.

BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.

BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [olovo (elementarno i anorganski spojevi)]

BEI - men: 400 µg/l, lead [in blood]. Sampling time: not critical.

BEI: 2.67 µmol/l E, protoporphyrin in erythrocytes [in blood].

Sampling time: after exposure for 2-3 months (sample protected from light).

BEI: 1.5 mg/l E, protoporphyrin in erythrocytes [in blood].

Sampling time: after exposure for 2-3 months (sample protected from light).

BEI: 15 µl E, δ-aminolevulinic acid anhydride [in blood]. Sampling time: not critical.

BEI - women under 45: 300 µg/l, lead [in blood]. Sampling time: not critical.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [olovo i njegovi ionski spojevi]

BEI surveillance: >40 µg/100 ml, lead [in blood].

BEI: 70 µg/100 ml, lead [in blood].

No exposure indices known.

Xylene

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

Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

Cyclohexanone

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

Biological limit values: 0.049 mmol/mmol creatinine, 1,2-cyclohexanediol (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

Biological limit values: 50 mg/g creatinine, 1,2-cyclohexanediol (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.

Ethylbenzene

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

Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.

Lead (Pb)

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

Biological limit values: 0.035 µmol/mmol creatinine, koproporphyrin [in urine]. Sampling time: not set.

Biological limit values: 0.2 mg/g creatinine, koproporphyrin [in urine]. Sampling time: not set.

Biological limit values: 13 µmol/mmol creatinine, 5-aminolevulinic acid [in urine]. Sampling time: not set.

Biological limit values: 15 mg/g creatinine, 5-aminolevulinic acid [in urine]. Sampling time: not set.

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No exposure indices known.

Lead (Pb)

Biological limit values: 0.4 mg/l, lead [in blood]. Sampling time: not set.

Biological exposure limits, Regulation number 193 (Estonia, 4/2024) [Plii ja selle ioonsete ühendite]

BEI: <6 european units, deltaaminolevulinic acid dehydratase activity in the blood [in blood].

BEI: 20 µg/g hemoglobin, zinc protoporphyrin in blood [in blood].

BEI: <20 mg/g creatinine, delta aminolevulinic acid in urine [in urine].

BEI: 70 µg Pb/100 ml, lead [in blood].

BEI surveillance: <50 µg Pb/100 ml, lead [in blood].

Lead (Pb)

EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds]

BEI surveillance: 30 µg/100 ml, lead [in blood].

BLV: 70 µg/100 ml, lead [in blood].

BEI surveillance - females of reproductive capacity: 4.5 µg/100 ml, lead [in blood].

Xylene

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

BEI: 5 mmol/l, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

Ethylbenzene

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

BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.

Lead (Pb)

Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Lyijy ja sen epaorganiset yhdisteet]

BEI: 1.4 µmol/l, lead [in blood]. Sampling time: not critical.

BEI surveillance: 40 µg/dl, lead [in blood].

BEI removal: 50 µg/dl, lead [in blood].

Lead (Pb)

Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [plomb et composés]

BLV surveillance - women: >100 µg/l, lead [in blood]. Sampling time: sample time not specified.

BLV surveillance - men: >200 µg/l, lead [in blood]. Sampling time: sample time not specified.

BLV binding - women: 300 µg/l, lead [in blood]. Sampling time: sample time not specified.

BLV binding - men: 400 µg/l, lead [in blood]. Sampling time: sample time not specified.

Xylene

DFG BEI-values list (Germany, 7/2024) [Xylene (all isomers)]

Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 1800 mg/g creatinine, Methylhippuric acids (=toluric acids) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 10/2024) [Xylol alle Isomeren]

BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.

Ethylbenzene

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

BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

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

BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

SECTION 8: Exposure controls/personal protection

bisphenol A	<p>DFG BEI-values list (Germany, 7/2024) BGV: 80 mg/l, bisphenol A (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.</p>
Lead (Pb)	<p>DFG BEI-values list (Germany, 7/2024) [Lead and its compounds (except lead arsenate, lead chromate and alkyl lead compounds)] BEI - women: 30 µg/l, lead [in blood]. Sampling time: no restriction in the steady state. BEI: 150 µg/l, lead [in blood]. Sampling time: no restriction in the steady state. BEI - men: 40 µg/l, lead [in blood]. Sampling time: no restriction in the steady state. TRGS 903 - BEI Values (Germany, 10/2024) BEI: 150 µg/l, lead [in whole blood]. Sampling time: no restriction in the steady state.</p>
Lead (Pb)	<p>Presidential Decree 338/2001: Biological limit values (Greece, 8/2024) [μόλυβδος και οι ανόργανες του ενώσεις] BLV surveillance: 40 µg/100 ml, lead [in blood]. BLV: 70 µg/100 ml, lead [in blood].</p>
Xylene	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.</p>
Ethylbenzene	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift. BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.</p>
Lead (Pb)	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [ólom (szervetlen)] BEI - men and women over 45: 300 µg/l, lead [in blood]. Sampling time: not critical. BEI - men and women over 45: 1.5 µmol/l, lead [in blood]. Sampling time: not critical. BEI - women under 45: 200 µg/l, lead [in blood]. Sampling time: not critical. BEI - women under 45: 1 µmol/l, lead [in blood]. Sampling time: not critical. BEI - men and women over 45: 100 µmol/mol Hb, zinc-protoporphyrin prescreening [in blood]. Sampling time: applied 3 months after prolonged exposure. BEI - women under 45: 80 µmol/mol Hb, zinc-protoporphyrin prescreening [in blood]. Sampling time: applied 3 months after prolonged exposure.</p>
No exposure indices known.	
Xylene	<p>NAOSH BGVs (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.</p>
Cyclohexanone	<p>NAOSH BGVs (Ireland, 1/2011) BMGV: 80 mg/l, 1,2-cyclohexanediol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 8 mg/l, cyclohexanol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.</p>
Ethylbenzene	<p>NAOSH BGVs (Ireland, 1/2011)</p>

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	<p>BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical.</p> <p>BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.</p>
Lead (Pb)	<p>NAOSH (Ireland, 4/2024) [lead and its ionic compounds] BEI surveillance: >40 µg/100ml, lead [in blood]. BLV: 70 µg/100ml, lead [in blood].</p>
Lead (Pb)	<p>Legislative Decree No. 81/2008. Annex XXXIX. Mandatory biological limit values (Italy, 9/2024) [piombo e suoi composti ionici] BEI surveillance: 40 µg/100 ml, lead [in blood]. BEI - female workers of a fertile age: 40 µg/100 ml, lead [in blood]. BEI: 60 µg/100 ml, lead [in blood].</p>
Xylene	<p>Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [ksiloli (visi izomēri)] BEI: 2000 mg/l, methylhippuric (toluric) acid (all isomers) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.</p>
Lead (Pb)	<p>Minister of Social Security and Labor and Minister of Health Protection, Order No. 97/406 (Lithuania, 1/2024) [Švinas ir jo joniniai junginiai] BLV surveillance: 40 µg/100ml, lead [in blood]. Sampling time: sample time not specified. BLV: 70 µg/100ml, lead [in blood]. Sampling time: sample time not specified.</p>
Lead (Pb)	<p>Grand-Duchy Regulation 2016. Biological limit values. Annex II (Luxembourg, 3/2021) [Plomb et ses composés ioniques] BEI surveillance: 40 µg /100 ml, lead [in blood]. BLV: 70 µg /100 ml, lead [in blood].</p>
No exposure indices known.	
Lead (Pb)	<p>Ministry of Social Affairs and Employment, Biological limit values (Netherlands, 5/2024) [lood] BLV: 70 µg/100 ml, lead [in blood]. BLV for frequency of measurement: 50 µg/100 ml, lead [in blood].</p>
No exposure indices known.	
Lead (Pb)	<p>Regulation of the Ministry of Health of September 16, 2016, Safety and occupational health related to the presence of chemical agents in the workplace (Poland, 7/2024) [ołów i jego związki nieorganiczne z wyjątkiem arsenianu(V) ołowiu(II) oraz chromianu(VI) ołowiu(II) – w przeliczeniu] BLV: 50 µg Pb/100 ml, lead [in blood]. Form: Inhalable fraction. BEI surveillance: 40 µg Pb/100 ml, lead [in blood]. Form: Inhalable fraction.</p>

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Xylene	<p>Portuguese Institute of Quality (Portugal, 11/2014) [Xilenos (graus técnico e comercial)] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.</p>
Cyclohexanone	<p>Portuguese Institute of Quality (Portugal, 11/2014) BEI: 8 mg/l [The biological indicator is a bio marker of exposure to the chemical agent, but the quantitative interpretation of the measurement is ambiguous. These biological indicators should be used as a screening test if a quantitative test is not practicable or as a confirmatory test if the quantitative test is not specific and the origin of the biological indicator is in question], cyclohexanol [in urine]. Sampling time: end of shift. BEI: 80 mg/l [The biological indicator is a bio marker of exposure to the chemical agent, but the quantitative interpretation of the measurement is ambiguous. These biological indicators should be used as a screening test if a quantitative test is not practicable or as a confirmatory test if the quantitative test is not specific and the origin of the biological indicator is in question], 1,2-cyclohexanediol [in urine]. Sampling time: end of shift at the end of the workweek.</p>
Ethylbenzene	<p>Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.</p>
Lead (Pb)	<p>Portuguese Institute of Quality (Portugal, 11/2014) BEI: 30 µg/100 ml, lead [in blood]. Sampling time: not critical. Decree-Law 301/2000 - Biological limit values and health surveillance measures for carcinogenic or mutagenic agents (Portugal, 12/2004) [chumbo e respetivos compostos iónicos] BEI surveillance: 40 µg/100 ml, lead [in blood]. BEI: 70 µg/100 ml, lead [in blood].</p>
Xylene	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [xilen] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.</p>
Ethylbenzene	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.</p>
Lead (Pb)	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [plumbul și compușii săi ionici] OBLV: 100 µg/100 ml erythrocytes, free protoporphyrin erythrocytes [in blood]. Sampling time: end of shift. OBLV: 300 µg/l, coproporphyrins [in urine]. Sampling time: end of shift. OBLV: 10 mg/l, deltaaminolevulinic acid [in urine]. Sampling time: end of shift. OBLV: 3 µg/cm, lead [in hair]. Sampling time: end of shift. OBLV: 70 µg/100 ml, lead [in blood]. Sampling time: end of shift. OBLV: 150 µg/l, lead [in urine]. Sampling time: end of shift. BEI supervision: >40 µg/100 ml, lead [in blood]. HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [plumb, compusii neionici] OBLV: 100 µg/100 ml erythrocytes, free protoporphyrin erythrocytes [in blood]. Sampling time: end of shift. OBLV: 300 µg/l, coproporphyrins [in urine]. Sampling time: end of shift. OBLV: 10 mg/l, deltaaminolevulinic acid [in urine]. Sampling time: end of shift. OBLV: 3 µg/cm, lead [in hair]. Sampling time: end of shift. OBLV: 70 µg/100 ml, lead [in blood]. Sampling time: end of shift.</p>

SECTION 8: Exposure controls/personal protection

Xylene

OBLV: 150 µg/l, lead [in urine]. Sampling time: end of shift.

Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén (všetky izoméry)]

BLV: 781 µmol/mmol creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 10355 µmol/l, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.6 µmol/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2000 mg/l, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.5 mg/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift.

Ethylbenzene

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

BLV: 799 µmol/mmol creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 7.44 µmol/mmol creatinine, as 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1067 mg/g creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 8.03 mg/g creatinine, as 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 10590 µmol/l, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 98.6 µmol/l, as 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1600 mg/l, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 12 mg/l, as 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

Lead (Pb)

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

[olovo a jeho zlúčeniny (okrem chrómanu olovnatého, chrómanu arzenitého a alkylovaných zlúčenín)]

BLV: 3.4 µmol/l, as lead [in blood]. Sampling time: no limitation.

BLV: 700 µg/l, as lead [in blood].

BLV surveillance: 400 µg/l, as lead [in blood].

BLV: 43 nmol/mmol creatinine, as coproporphyrins [in urine].

Sampling time: no limitation.

BLV - women under 45: 3.48 µmol/mmol creatinine, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 8.65 µmol/mmol creatinine, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 0.2 mg/g creatinine, as coproporphyrins [in urine]. Sampling time: no limitation.

BLV - women under 45: 4.03 mg/g creatinine, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 10.03 mg/g creatinine, as δ-aminolevulinic acid [in urine].

Sampling time: no limitation.

BLV: 0.45 µmol/l, as coproporphyrins [in urine]. Sampling time: no limitation.

SECTION 8: Exposure controls/personal protection

	<p>BLV - women under 45: 46.1 µmol/l, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.</p> <p>BLV: 114.7 µmol/l, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.</p> <p>BLV - women under 45: 485 nmol/l, as lead [in blood]. Sampling time: no limitation.</p> <p>BLV: 1933 nmol/l, as lead [in blood]. Sampling time: no limitation.</p> <p>BLV: 0.3 mg/l, as coproporphyrins [in urine]. Sampling time: no limitation.</p> <p>BLV - women under 45: 6 mg/l, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.</p> <p>BLV: 15 mg/l, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.</p> <p>BLV - women under 45: 100 µg/l, as lead [in blood]. Sampling time: no limitation.</p> <p>BLV: 400 µg/l, as lead [in blood]. Sampling time: no limitation.</p>
Xylene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen (vse izomere)]</p> <p>BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.</p>
Ethylbenzene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</p> <p>BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.</p>
Lead (Pb)	<p>Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024) [svinec]</p> <p>BAT - women under 45: 300 µg/l, lead [in blood]. Sampling time: not relevant.</p> <p>BAT - men: 400 µg/l, lead [in blood]. Sampling time: not relevant.</p>
Xylene	<p>National institute of occupational safety and health (Spain, 1/2024) [Xilenos]</p> <p>VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p>
Cyclohexanone	<p>National institute of occupational safety and health (Spain, 1/2024)</p> <p>VLB: 80 mg/l, 1,2-cyclohexanediol [in urine]. Sampling time: end of workweek.</p> <p>VLB: 8 mg/l, cyclohexanol [in urine]. Sampling time: end of shift.</p>
Ethylbenzene	<p>National institute of occupational safety and health (Spain, 1/2024)</p> <p>VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.</p>
Lead (Pb)	<p>National institute of occupational safety and health (Spain, 1/2024) [Plomo y sus derivados iónicos]</p> <p>VLB: 70 µg/dl, lead [in blood]. Sampling time: not critical.</p>
Lead (Pb)	<p>Work environment authority Regulation 2005:6 (Sweden, 6/2023)</p> <p>BEI Stop Working - women under 50: >0.5 µmol/l, lead [in blood]. Sampling time: prior to the work and every 6 months.</p> <p>BEI Monitoring Every 6 Months - men, women over 50: <0.8 µmol/l, lead [in blood]. Sampling time: prior to the work and every 6 months.</p> <p>BEI Stop Working - men, women over 50: >1.5 µmol/l, lead [in blood]. Sampling time: prior to the work and every 3 years.</p> <p>BEI Investigate - men, women over 50: >1 µmol/l, lead [in blood].</p>

SECTION 8: Exposure controls/personal protection

Xylene	<p>Sampling time: prior to the work and every 3 years. BEI No Recurring Control - men, women over 50: <0.4 µmol/l, lead [in blood]. Sampling time: prior to the work and every 3 years. BEI return - men, women over 50: <1.3 µmol/l, lead [in blood]. Sampling time: prior to the work and every 3 years.</p> <p>SUVA (Switzerland, 1/2025) [Xylol (alle Isomere)] BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Cyclohexanone	<p>SUVA (Switzerland, 1/2025) BEI: 100 mg/l, total 1,2-cyclohexanediol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.86 mmol/l, total 1,2-cyclohexanediol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 12 mg/l, total cyclohexanol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.12 mmol/l, total cyclohexanol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</p>
Ethylbenzene	<p>SUVA (Switzerland, 1/2025) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Lead (Pb)	<p>SUVA (Switzerland, 1/2025) [Blei und seine Verbindungen (ausser Alkylverbindungen)] BEI: 400 µg/l, (men, women > 45 years of age) [in blood]. Sampling time: not specified. BEI: 1.93 µmol/l, (men, women > 45 years of age) [in blood]. Sampling time: not specified. BEI: 100 µg/l, (women < 45 years of age) [in blood]. Sampling time: not specified. BEI: 0.48 µmol/l, (women < 45 years of age) [in blood]. Sampling time: not specified.</p>
Xylene	<p>EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.</p>
Cyclohexanone	<p>EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 2 mmol/mol creatinine, cyclohexanol [in urine]. Sampling time: post shift.</p>
Lead (Pb)	<p>EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] BEI surveillance: 30 µg/100 ml, lead [in blood]. BLV: 70 µg/100 ml, lead [in blood]. BEI surveillance - females of reproductive capacity: 4.5 µg/100 ml, lead [in blood].</p>

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.

SECTION 8: Exposure controls/personal protection

DNELs/DMELs

Product/ingredient name

-Methoxy-1-methylethyl acetate

Result

DNEL - General population - Long term - Inhalation

33 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

33 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

36 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

275 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

320 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Inhalation

550 mg/m³

Effects: Local

DNEL - Workers - Long term - Dermal

796 mg/kg bw/day

Effects: Systemic

Xylene

DNEL - General population - Long term - Oral

5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

65.3 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

65.3 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

125 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

212 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

221 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

221 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

260 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

260 mg/m³

Effects: Systemic

SECTION 8: Exposure controls/personal protection

Cyclohexanone

DNEL - Workers - Short term - Inhalation

442 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

442 mg/m³

Effects: Systemic

DNEL - General population - Short term - Dermal

1 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

1 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Oral

1.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

1.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

2.55 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Dermal

4 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

4 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

5 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

10 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

10 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

20 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

20 mg/m³

Effects: Systemic

Ethylbenzene

DMEL - Workers - Long term - Inhalation

442 mg/m³

Effects: Local

DMEL - Workers - Short term - Inhalation

884 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

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1.6 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

15 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

77 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

180 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Inhalation

293 mg/m³

Effects: Local

DNEL - General population - Short term - Dermal

24 µg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

24 µg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Oral

53 µg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

53 µg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

66 µg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

66 µg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

1 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

1 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

1 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

1 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

2 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

2 mg/m³

bisphenol A

SECTION 8: Exposure controls/personal protection

Effects: Local

DNEL - Workers - Short term - Inhalation

2 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

2 mg/m³

Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

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

1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.

> 8 hours (breakthrough time): Viton® thickness > 0.3 mm 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.

SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Filter type: A
Filter type (spray application): A P
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
Colour : Various
Odour : Slight
Odour threshold : Not available.
Melting point/freezing point : Not available.
Initial boiling point and boiling range :

Ingredient name	°C	°F	Method
Ethylbenzene	136.1	277	OECD 104
Xylene	136.16	277.1	

- Flammability** : Not available.
Lower and upper explosion limit : Lower: 0.8% (xylene)
Upper: 6.7% (xylene)
Flash point : Closed cup: 25°C (77°F)
Auto-ignition temperature :

Ingredient name	°C	°F	Method
Methoxy-1-methylethyl acetate	333	631.4	DIN 51794
Cyclohexanone	420	788	

- Decomposition temperature** : Not available.
pH : Not applicable.
Viscosity : Kinematic (40°C): >20.5 mm²/s
Solubility(ies) :
Not available.

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

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethylbenzene	9.30076	1.2				
Xylene	6.7	0.89				

- Relative density** : Not available.
Density : 2.2 g/cm³
Vapour density : Not available.

SECTION 9: Physical and chemical properties

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.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

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

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

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name

 Methoxy-1-methylethyl acetate

Result

Rat - Oral - LD50
8532 mg/kg

Rabbit - Dermal - LD50
>5 g/kg

Xylene

Rat - Oral - LD50
4300 mg/kg
Toxic effects: Liver - Other changes
Kidney, Ureter, and Bladder - Other changes

Rat - Inhalation - LC50 Vapour
21.7 mg/l [4 hours]

Cyclohexanone

Rat - Oral - LD50
1800 mg/kg
Rat - Inhalation - LC50 Gas.
8000 ppm [4 hours]

Ethylbenzene

Rat - Oral - LD50
3500 mg/kg
Rabbit - Dermal - LD50
15400 mg/kg
Rat - Inhalation - LC50 Dusts and mists
29000 mg/l [4 hours]

SECTION 11: Toxicological information

bisphenol A

Rat - Oral - LD50

1200 mg/kg

Toxic effects: Effects on Fertility - Female fertility index (e.g., number of females pregnant per number of sperm-positive females; number of females pregnant per number of females mated)

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)
TEKNOZINC SP	49986.6	9383.3	N/A	80.8	N/A
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
Cyclohexanone	1620	1100	N/A	11	N/A
Ethylbenzene	3500	15400	N/A	11	29000

Skin corrosion/irritation

Product/ingredient name

Zinc powder - zinc dust (stabilized)

Result

Human - Skin - Mild irritant

Duration of treatment/exposure: 72 hours

Amount/concentration applied: 300 ug l

Xylene

Rat - Skin - Mild irritant

Duration of treatment/exposure: 8 hours

Amount/concentration applied: 60 uL

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 100 %

Cyclohexanone

Human - Skin - Mild irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 50 %

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Ethylbenzene

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 15 mg

bisphenol A

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant

Amount/concentration applied: 250 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Result

SECTION 11: Toxicological information

Xylene

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

Cyclohexanone

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 250 ug

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 20 mg

Ethylbenzene

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 500 mg

bisphenol A

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 250 ug

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

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

SECTION 11: Toxicological information

2-Methoxy-1-methylethyl acetate	STOT SE 3, H336 (Narcotic effects)
Xylene	STOT SE 3, H335 (Respiratory tract irritation)
Cyclohexanone	STOT SE 3, H335 (Respiratory tract irritation)
bisphenol A	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Xylene	STOT RE 2, H373 (oral, inhalation)
Ethylbenzene	STOT RE 2, H373 (hearing organs) (oral, inhalation)

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

SECTION 11: Toxicological information

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

Zinc powder - zinc dust (stabilized)

Result

Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate
65 µg/l [48 hours]
Effect: Mortality

Acute - IC50 - Marine water

Algae - Diatom - *Nitzschia closterium* - Exponential growth phase
65 µg/l [4 days]
Effect: Population

Chronic - EC10 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata* - Exponential growth phase
27.3 µg/l [72 hours]
Effect: Population

Chronic - EC10 - Fresh water

Daphnia - Water flea - *Daphnia magna*
Age: <24 hours
59.2 µg/l [21 days]
Effect: Reproduction

Chronic - NOEC - Fresh water

Fish - common carp - *Cyprinus carpio*
Age: 13 months; Size: 10.5 cm; Weight: 27.8 g
2.6 µg/l [4 weeks]
Effect: Accumulation

Acute - LC50 - Marine water

Fish - Mudskipper - *Periophthalmus waltoni* - Adult
12.21 µg/l [96 hours]
Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
Age: 30 days; Size: 20.2 mm; Weight: 0.127 g
527000 µg/l [96 hours]
Effect: Mortality

Chronic - EC10 - Fresh water

Algae - Green algae - *Chlamydomonas reinhardtii* - Exponential growth phase
Age: 7 days
3.56 mg/l [72 hours]
Effect: Population

Acute - EC50 - Fresh water

Algae - Green algae - *Chlamydomonas reinhardtii* - Exponential growth phase
Age: 7 days
32.9 mg/l [72 hours]
Effect: Population

Cyclohexanone

SECTION 12: Ecological information

bisphenol A

Acute - EC50 - Marine water

Algae - Diatom - *Skeletonema costatum*

1000 µg/l [96 hours]

Effect: Growth

Chronic - NOEC - Fresh water

Fish - Goldfish - *Carassius auratus* - Adult

Age: 2 to 3 years

0.2 µg/l [90 days]

Effect: Reproduction

Chronic - NOEC - Fresh water

Algae - Algae - *Chlorolobion braunii* - Exponential growth phase

2 mg/l [4 days]

Effect: Population

Acute - LC50 - Marine water

Fish - Rivulus - *Rivulus marmoratus* - Embryo

3.5 mg/l [96 hours]

Effect: Mortality

Chronic - NOEC - Marine water

Crustaceans - Harpacticoid copepod - *Tigriopus japonicus* -

Nauplii

Age: <24 hours

10 µg/l [21 days]

Effect: Reproduction

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - *Artemia sinica*

Age: 15 days

50.4 µg/l [48 hours]

Effect: Mortality

Lead (Pb)

Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia reticulata*

Age: <4 hours

530 µg/l [48 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Fish - common carp - *Cyprinus carpio* - Juvenile (Fledgling, Hatchling, Weanling)

Size: 3.5 cm

0.44 ppm [96 hours]

Effect: Mortality

Chronic - NOEC - Marine water

Algae - Green algae - *Ulva pertusa*

0.25 mg/l [96 hours]

Effect: Reproduction

Chronic - NOEC - Fresh water

Fish - common carp - *Cyprinus carpio*

Age: 13 months; Size: 10.5 cm; Weight: 27.8 g

0.03 µg/l [4 weeks]

Effect: Accumulation

Acute - EC50 - Marine water

Algae - Diatom - *Chaetoceros sp.* - Exponential growth phase

105 ppb [72 hours]

Effect: Population

Conclusion/Summary [Product] : Not available.

SECTION 12: Ecological information

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Xylene	3.12	8.1 to 25.9	Low
Cyclohexanone	0.86	-	Low
Ethylbenzene	3.6	-	Low
bisphenol A	3.4	20 to 67	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
2-Methoxy-1-methylethyl acetate	0.36	2.31363
Cyclohexanone	1.8	63.2873
Ethylbenzene	2.2	170.406
bisphenol A	3.2	1436.23

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Cyclohexanone	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
bisphenol A	No	No	No	No	No	No	No
Lead (Pb)	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	B	T	vPvB	vP	vB
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Xylene	No	N/A	No	Yes	No	N/A	No
Cyclohexanone	No	N/A	N/A	No	N/A	N/A	N/A
Ethylbenzene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
bisphenol A	No	N/A	No	Yes	No	N/A	No
Lead (Pb)	No	No	No	No	No	No	No

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

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Cyclohexanone	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
bisphenol A	No	No	No	No	No	No	No
Lead (Pb)	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 : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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

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

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	III	III	III	III
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.

Hazard identification number 30

Limited quantity LQ7

Special provisions 163 640E 650

Tunnel code (D/E)

ADN

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG

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

Emergency schedules F-E, _S-E_

Special provisions 163, 223, 955

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions:

309. Cargo Aircraft Only: 220 L. Packaging instructions: 310. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y309.

Special provisions A3, A72

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

SECTION 15: Regulatory information

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
 Toxic to reproduction	4,4'-isopropylidenediphenol	Recommended	9th recommendation	10/1/2019
	lead	Recommended	11th recommendation	4/12/2023
Endocrine disrupting properties for human health	4,4'-isopropylidenediphenol	Recommended	9th recommendation	10/1/2019
Endocrine disrupting properties for environment	4,4'-isopropylidenediphenol	Recommended	9th recommendation	10/1/2019

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

Product/ingredient name	%	Designation [Usage]
 TEKNOZINC SP	≥90	3
bisphenol A	<0.1	66
Lead (Pb)	<0.01	72

Labelling :

Other EU regulations

Industrial emissions
(integrated pollution
prevention and control) -
Air : Listed

Industrial emissions
(integrated pollution
prevention and control) -
Water : Listed

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
 5c E1

National regulations


Austria

VbF class :  Category 3

Limitation of the use of
organic solvents : Permitted.

Belgium

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

Ingredient name	Status
 Silice Plomb et ses composés inorganiques	Listed Listed

Czech Republic


SECTION 15: Regulatory information


Storage code : II

[Denmark](#)

Fire class : -1

[Executive Order No. 1795/2015](#)

Ingredient name	Annex I Section A	Annex I Section B
 Ethylbenzene	Listed	-

MAL-code : -6

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, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

 MAL-code: 4-6

Application: When using scraper or knife, brush, roller etc. for pre- and post-treatments 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.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied half mask, protective clothing and eye protection must be worn.

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

- Air-supplied half mask and eye protection must be worn.

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

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.

SECTION 15: Regulatory information

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

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


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

*See Regulations.

- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
- List of undesirable substances** : 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** : -Methoxy-1-methylethyl acetate RG 84
Xylene RG 4bis, RG 84
Cyclohexanone RG 84
Ethylbenzene RG 84
Lead (Pb) RG 1

- Reinforced medical surveillance** : 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
E1	1.3.1

Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
 5.2.1	Total dust	13
5.2.5	Organic substances	27.8
5.2.5 [I]	Organic substances	27.4
5.2.7.1.3	Reproductive toxic substances	0.082
5.2.10	Soil polluting substances	59.2

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


Italy

D.Lgs. 152/06 : Not determined.

Netherlands

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

SECTION 15: Regulatory information

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

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

Norway

Sweden

Flammable liquid class (SRVFS 2005:10) : 2a

Switzerland

VOC content : VOC (w/w): 27.4%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
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. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	On basis of test data Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360F	May damage fertility.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
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.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Lact.	REPRODUCTIVE TOXICITY - Effects on or via lactation
Repr. 1A	REPRODUCTIVE TOXICITY - Category 1A
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Version : 10

TEKNOZINC SP

All variants

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.

