

SAFETY DATA SHEET



MATTÖL BUNT 1409-15 - All variants

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

1.1 Product identifier

Product name : MATTÖL BUNT 1409-15 - 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

Eye Irrit. 2, H319

Skin Sens. 1, H317

STOT SE 3, H336

Aquatic Chronic 3, H412

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 : Warning

Hazard statements : H226 - Flammable liquid and vapour.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H412 - Harmful 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 : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

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

SECTION 2: Hazards identification

Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: 1-Methoxy 2-propanol; Naphtha (petroleum), hydrotreated heavy and Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)
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
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Naphtha (petroleum), hydrotreated heavy	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304	-	[1]
Naphtha (petroleum), hydrotreated heavy	EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	-	[1]
Butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromaticshydrocarbons	REACH #: 01-2119456620-43 EC: 926-141-6	≤10	Asp. Tox. 1, H304 EUH066	-	[1]
Naphtha (petroleum), hydrotreated light	REACH #: 01-2119475515-33 EC: 265-151-9 CAS: 64742-49-0 Index: 649-328-00-1	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	-	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36	≤3	Acute Tox. 4, H302 Acute Tox. 3, H331	ATE [Oral] = 1200 mg/kg	[1] [2]

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Label No : 143823

SECTION 3: Composition/information on ingredients

	EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0		Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Inhalation (vapours)] = 3 mg/l	
hydrogen [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxy-5-nitrobenzenesulphonato(3-)]hydroxychromate(1-), compound with 3-[(2-ethylhexyl)oxy]propylamine (1:1)	EC: 287-257-4 CAS: 85443-67-0	≤3	Aquatic Chronic 3, H412	-	[1]
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	EC: 287-007-4 CAS: 85408-46-4	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	EC: 275-864-7 CAS: 71701-15-0	≤1	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
See Section 16 for the full text of the H statements declared above.					

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

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

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Wash with plenty of 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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 or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, 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 harmful 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
nitrogen oxides
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

SECTION 5: Firefighting measures

- 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilled 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.

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 spilled 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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.

SECTION 7: Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 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
1-Methoxy 2-propanol	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 187 mg/m ³ . CEIL: 50 ppm. CEIL: 187 mg/m ³ .
Butanone	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 295 mg/m ³ . PEAK 30 minutes: 200 ppm 4 times per shift. PEAK 30 minutes: 590 mg/m ³ 4 times per shift.
Naphtha (petroleum), hydrotreated light	Regulation on Limit Values - MAC (Austria, 12/2024) [Hexan (alle Isomeren außer n-Hexan und Methylcyclopentan)] PEAK 15 minutes: 800 ppm 4 times per shift. TWA 8 hours: 715 mg/m ³ . TWA 8 hours: 200 ppm. PEAK 15 minutes: 2860 mg/m ³ 4 times per shift.
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . PEAK 30 minutes: 40 ppm 4 times per shift. PEAK 30 minutes: 200 mg/m ³ 4 times per shift.

SECTION 8: Exposure controls/personal protection

1-Methoxy 2-propanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 184 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m ³ .
Butanone	Limit values (Belgium, 12/2023) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ .
Naphtha (petroleum), hydrotreated light	Limit values (Belgium, 12/2023) [Hexaan (andere isomeren dan n-hexaan)] TWA 8 hours: 500 ppm. TWA 8 hours: 1786 mg/m ³ . STEL 15 minutes: 1000 ppm. STEL 15 minutes: 3551 mg/m ³ .
2-Butoxyethanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	Limit values (Belgium, 12/2023) [Chroom (metaal) en anorganische verbindingen (met uitzondering van Cr VI verbindingen)] TWA 8 hours: 0.5 mg/m ³ .
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	Limit values (Belgium, 12/2023) [Chroom (metaal) en anorganische verbindingen (met uitzondering van Cr VI verbindingen)] TWA 8 hours: 0.5 mg/m ³ .
1-Methoxy 2-propanol	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: 375 mg/m ³ . Limit value 15 minutes: 568 mg/m ³ . Limit value 15 minutes: 150 ppm. Limit value 8 hours: 100 ppm.
Butanone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 590 mg/m ³ . Limit value 15 minutes: 885 mg/m ³ .
2-Butoxyethanol	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: 98 mg/m ³ . Limit value 15 minutes: 246 mg/m ³ . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.
1-Methoxy 2-propanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 568 mg/m ³ . STELV 15 minutes: 150 ppm. ELV 8 hours: 375 mg/m ³ . ELV 8 hours: 100 ppm.
Butanone	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 900 mg/m ³ . STELV 15 minutes: 300 ppm. ELV 8 hours: 600 mg/m ³ . ELV 8 hours: 200 ppm.
2-Butoxyethanol	Ordinance on the protection of workers from exposure to

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1-Methoxy 2-propanol	<p>hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 246 mg/m³. STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m³. ELV 8 hours: 20 ppm.</p>
Butanone	<p>Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³.</p>
2-Butoxyethanol	<p>Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³. TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³.</p>
1-Methoxy 2-propanol	<p>Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³.</p>
Butanone	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 270 mg/m³. TWA 8 hours: 72.09 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 146.84 ppm.</p>
Naphtha (petroleum), hydrotreated light	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm.</p>
2-Butoxyethanol	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [hexan isomery] TWA 8 hours: 1000 mg/m³. TWA 8 hours: 279 ppm. STEL 15 minutes: 2000 mg/m³. STEL 15 minutes: 558 ppm.</p>
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m³. STEL 15 minutes: 40.7 ppm.</p>
1-Methoxy 2-propanol	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [chrom a nerozpuštěné sloučeniny chromu (II, III)] STEL 15 minutes: 1.5 mg/m³ (as Cr). Form: aerosol, inhalable fraction.. TWA 8 hours: 0.5 mg/m³ (as Cr). Form: aerosol, inhalable fraction.</p>
Butanone	<p>Working Environment Authority (Denmark, 12/2024) [1-methoxy-2-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 185 mg/m³. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm.</p>
	<p>Working Environment Authority (Denmark, 12/2024) Absorbed through skin.</p>

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Naphtha (petroleum), hydrotreated light	<p>TWA 8 hours: 50 ppm. TWA 8 hours: 145 mg/m³. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm.</p> <p>Working Environment Authority (Denmark, 12/2024) [hexan, andre isomere end n-hexan] TWA 8 hours: 200 ppm. TWA 8 hours: 700 mg/m³. STEL 15 minutes: 1400 mg/m³. STEL 15 minutes: 400 ppm.</p>
2-Butoxyethanol	<p>Working Environment Authority (Denmark, 12/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm.</p>
1-Methoxy 2-propanol	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin , Sensitiser. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm.</p>
Butanone	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm.</p>
Naphtha (petroleum), hydrotreated light	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [heksaanid v.a n-heksaan] TWA 8 hours: 700 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 1100 mg/m³. STEL 15 minutes: 300 ppm.</p>
2-Butoxyethanol	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin , Sensitiser. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm.</p>
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [kroom (metall) ja tema anorgaanilised ühendid, v.a kroomhape ja kromaadid] TWA 8 hours: 2 mg/m³ (calculated as Cr).</p>
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [kroom (metall) ja tema anorgaanilised ühendid, v.a kroomhape ja kromaadid] TWA 8 hours: 2 mg/m³ (calculated as Cr).</p>
1-Methoxy 2-propanol	<p>EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³.</p>
Butanone	<p>EU OEL (Europe, 1/2022) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.</p>
2-Butoxyethanol	<p>EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.</p>

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1-Methoxy 2-propanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 370 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m ³ .
Butanone	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m ³ . TWA 8 hours: 60 mg/m ³ . TWA 8 hours: 20 ppm.
Naphtha (petroleum), hydrotreated light	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Heksaani, paitsi n-heksaani] TWA 8 hours: 500 ppm. TWA 8 hours: 1800 mg/m ³ . STEL 15 minutes: 630 ppm. STEL 15 minutes: 2300 mg/m ³ . Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Heksaani, isomeerien seos (joka sisältää vähemmän kuin 5% n-heksaania)] STEL 15 minutes: 630 ppm. TWA 8 hours: 1800 mg/m ³ . TWA 8 hours: 500 ppm. STEL 15 minutes: 2300 mg/m ³ .
Linseed-oil	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Öljysumu] TWA 8 hours: 5 mg/m ³ . Form: Mist.
2-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m ³ .
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Kromi ja sen (II, III)-yhdisteet] TWA 8 hours: 0.5 mg/m ³ (calculated as Cr).
1-Methoxy 2-propanol	Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 188 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 375 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)
Butanone	Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 200 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 600 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 900 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 300 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
Naphtha (petroleum), hydrotreated light	Ministry of Labor (France, 6/2024) [Hexane (autres isomères)] TWA 8 hours: 500 ppm. Notes: Permissible limit values (circulars) TWA 8 hours: 1800 mg/m ³ . Notes: Permissible limit values (circulars)
2-Butoxyethanol	Ministry of Labor (France, 6/2024) Absorbed through skin.

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	<p>TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
1-Methoxy 2-propanol	<p>TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 370 mg/m³. PEAK 15 minutes: 740 mg/m³. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 370 mg/m³. PEAK 15 minutes: 740 mg/m³ 4 times per shift [Interval: 1 hour].</p>
Naphtha (petroleum), hydrotreated heavy	<p>DFG MAC-values list (Germany, 7/2024) Develop D. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 600 mg/m³ 4 times per shift [Interval: 1 hour].</p>
Butanone	<p>TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 600 mg/m³. PEAK 15 minutes: 600 mg/m³. TWA 8 hours: 200 ppm. PEAK 15 minutes: 200 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. TWA 8 hours: 200 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 600 mg/m³. PEAK 15 minutes: 600 mg/m³ 4 times per shift [Interval: 1 hour].</p>
Naphtha (petroleum), hydrotreated light	<p>TRGS 900 OEL (Germany, 6/2024) [Hexan Isomere (außer n-Hexan) und Methylcyclopentan] TWA 8 hours: 1800 mg/m³. TWA 8 hours: 500 ppm. PEAK 15 minutes: 3600 mg/m³. PEAK 15 minutes: 1000 ppm. DFG MAC-values list (Germany, 7/2024) [Hexane] Develop D. TWA 8 hours: 500 ppm. PEAK 15 minutes: 1000 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 1800 mg/m³. PEAK 15 minutes: 3600 mg/m³ 4 times per shift [Interval: 1 hour].</p>
Linseed-oil	<p>TRGS 900 OEL (Germany, 6/2024) [Triglyceride] PEAK 15 minutes: 20 mg/m³. Form: Respirable fraction. TWA 8 hours: 5 mg/m³. Form: Respirable fraction.</p>
2-Butoxyethanol	<p>TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³ 4 times per shift [Interval: 1 hour].</p>
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	<p>DFG MAC-values list (Germany, 7/2024) [Chromium(III) compounds] Skin sensitiser.</p>

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1-Methoxy 2-propanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 1080 mg/m ³ .
Butanone	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ .
Naphtha (petroleum), hydrotreated light	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [εξάνιο (όλα τα ισομερή)] TWA 8 hours: 500 ppm. TWA 8 hours: 1800 mg/m ³ . STEL 15 minutes: 1000 ppm. STEL 15 minutes: 3600 mg/m ³ .
2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m ³ .
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [χρωμίου (III) ενώσεις] TWA 8 hours: 0.5 mg/m ³ (as Cr).
1-Methoxy 2-propanol	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin. TWA 8 hours: 375 mg/m ³ . PEAK 15 minutes: 568 mg/m ³ . PEAK 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.
Butanone	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin. TWA 8 hours: 600 mg/m ³ . PEAK 15 minutes: 900 mg/m ³ . PEAK 15 minutes: 300 ppm. TWA 8 hours: 200 ppm.
2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . PEAK 15 minutes: 246 mg/m ³ . PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [egyéb szerves krómvegyületek [a króm (vi) vegyületek kivételével]] Sensitiser. TWA 8 hours: 0.5 mg/m ³ (as Cr). PEAK 15 minutes: 2 mg/m ³ (as Cr).
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [egyéb szerves krómvegyületek [a króm (vi) vegyületek kivételével]] Sensitiser. TWA 8 hours: 0.5 mg/m ³ (as Cr). PEAK 15 minutes: 2 mg/m ³ (as Cr).
1-Methoxy 2-propanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 568 mg/m ³ . STEL 15 minutes: 150 ppm. TWA 8 hours: 185 mg/m ³ . TWA 8 hours: 50 ppm.
Butanone	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 900 mg/m ³ . STEL 15 minutes: 300 ppm. TWA 8 hours: 145 mg/m ³ .

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Naphtha (petroleum), hydrotreated light	TWA 8 hours: 50 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Hexan, aðrir ísómerar en n -hexan] TWA 8 hours: 700 mg/m ³ . TWA 8 hours: 200 ppm.
2-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Absorbed through skin. STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m ³ . TWA 8 hours: 20 ppm.
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1) 1-Methoxy 2-propanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Króm og króm (króm II og III), sambönd] TWA 8 hours: 0.5 mg/m ³ (as Cr). Form: powder. NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 375 mg/m ³ . OELV 15 minutes: 150 ppm. OELV 15 minutes: 568 mg/m ³ .
Butanone	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 200 ppm. OELV 8 hours: 600 mg/m ³ . OELV 15 minutes: 300 ppm. OELV 15 minutes: 900 mg/m ³ .
Naphtha (petroleum), hydrotreated light	NAOSH (Ireland, 4/2024) [hexane] Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 500 ppm. OELV 8 hours: 1800 mg/m ³ . OELV 15 minutes: 1000 ppm. OELV 15 minutes: 3600 mg/m ³ .
2-Butoxyethanol	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 98 mg/m ³ . OELV 15 minutes: 50 ppm. OELV 15 minutes: 246 mg/m ³ .
Polyethylene wax	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 2 mg/m ³ . Form: fume. OELV 15 minutes: 6 mg/m ³ . Form: fume.
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1) 1-Methoxy 2-propanol	NAOSH (Ireland, 4/2024) [chromium (III) compounds] Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 2 mg/m ³ (as Cr). 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: 375 mg/m ³ . Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 568 mg/m ³ .
Butanone	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Limit value 8 hours: 200 ppm. Limit value 8 hours: 600 mg/m ³ . Short Term 15 minutes: 300 ppm. Short Term 15 minutes: 900 mg/m ³ .
2-Butoxyethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

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1-Methoxy 2-propanol	<p>Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m³. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m³.</p> <p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</p>
Butanone	<p>Absorbed through skin. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm.</p> <p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</p>
Naphtha (petroleum), hydrotreated light	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Ogļūdeņraži, piesātinātie alifātiskie, C1-10] TWA 8 hours: 100 mg/m³ (as C). STEL 15 minutes: 300 mg/m³ (as C).</p>
2-Butoxyethanol	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</p> <p>Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.</p>
1-Methoxy 2-propanol	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</p> <p>Absorbed through skin. TWA 8 hours: 190 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 300 mg/m³. STEL 15 minutes: 75 ppm.</p>
Butanone	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</p> <p>TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm.</p>
Naphtha (petroleum), hydrotreated light	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [heksanai, išskyrus n-heksaną] TWA 8 hours: 700 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 1100 mg/m³. STEL 15 minutes: 300 ppm.</p>
Linseed-oil	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [tepalo rūkas, įskaitant dūmus] TWA 8 hours: 1 mg/m³. Form: Mist. STEL 15 minutes: 3 mg/m³. Form: Mist.</p>
2-Butoxyethanol	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</p> <p>Absorbed through skin. TWA 8 hours: 50 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 100 mg/m³. STEL 15 minutes: 20 ppm.</p>
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [chromas, neorganinio chromo (II) junginiai ir neorganinio chromo (III) junginiai (netirpūs)] TWA 8 hours: 2 mg/m³.</p>

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1-Methoxy 2-propanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m ³ .
Butanone	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ .
2-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
1-Methoxy 2-propanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m ³ .
Butanone	EU OEL (Europe, 1/2022) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ .
2-Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
1-Methoxy 2-propanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 375 mg/m ³ . STEL 15 minutes: 563 mg/m ³ . TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.
Butanone	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 590 mg/m ³ . STEL 15 minutes: 900 mg/m ³ . TWA 8 hours: 197 ppm. STEL 15 minutes: 300 ppm.
2-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.
1-Methoxy 2-propanol	FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 180 mg/m ³ .
Butanone	FOR-2011-12-06-1358 (Norway, 5/2024) TWA 8 hours: 75 ppm. TWA 8 hours: 220 mg/m ³ .
Naphtha (petroleum), hydrotreated light	FOR-2011-12-06-1358 (Norway, 5/2024) [heksan (unntatt n-heksan)] TWA 8 hours: 250 ppm. TWA 8 hours: 1050 mg/m ³ .
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

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hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)
1-Methoxy 2-propanol

TWA 8 hours: 10 ppm.
TWA 8 hours: 50 mg/m³.

FOR-2011-12-06-1358 (Norway, 5/2024) [Krom og Cr^{2±} og Cr^{3±} forbindelser]

TWA 8 hours: 0.5 mg/m³ (calculated as Cr).

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: 180 mg/m³.

STEL 15 minutes: 360 mg/m³.

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) [benzin to varnish]

TWA 8 hours: 300 mg/m³.

STEL 15 minutes: 900 mg/m³.

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

TWA 8 hours: 450 mg/m³.

STEL 15 minutes: 900 mg/m³.

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) [benzin extraction]

TWA 8 hours: 500 mg/m³.

STEL 15 minutes: 1500 mg/m³.

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) [hexane – other acyclic isomers except hexane]

TWA 8 hours: 400 mg/m³.

STEL 15 minutes: 1200 mg/m³.

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: 98 mg/m³.

STEL 15 minutes: 200 mg/m³.

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) [chromium, metal, Cr II compounds, Cr III compounds]

TWA 8 hours: 0.5 mg/m³ (calculated as Cr).

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

TWA 8 hours: 50 ppm.

STEL 15 minutes: 100 ppm.

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

STEL 15 minutes: 150 ppm.

STEL 15 minutes: 568 mg/m³.

TWA 8 hours: 100 ppm.

TWA 8 hours: 375 mg/m³.

Naphtha (petroleum), hydrotreated heavy

Butanone

Naphtha (petroleum), hydrotreated light

2-Butoxyethanol

hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)

1-Methoxy 2-propanol

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Butanone	<p>Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm.</p> <p>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³. TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³.</p>
Naphtha (petroleum), hydrotreated light	<p>Portuguese Institute of Quality (Portugal, 11/2014) [hexano, outros isómeros] TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm.</p>
2-Butoxyethanol	<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: 50 ppm. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³.</p>
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	<p>Portuguese Institute of Quality (Portugal, 11/2014) [metal e compostos de crómio (III)] A4. TWA 8 hours: 0.5 mg/m³ (expressed as Cr).</p>
1-Methoxy 2-propanol	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 375 mg/m³. VLA 8 hours: 100 ppm. Short term 15 minutes: 568 mg/m³. Short term 15 minutes: 150 ppm.</p>
Butanone	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 600 mg/m³. VLA 8 hours: 200 ppm. Short term 15 minutes: 900 mg/m³. Short term 15 minutes: 300 ppm.</p>
2-Butoxyethanol	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m³. VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m³. Short term 15 minutes: 50 ppm.</p>
1-Methoxy 2-propanol	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm.</p>
Butanone	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) Inhalation sensitiser. TWA 8 hours: 600 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 900 mg/m³. STEL 15 minutes: 300 ppm.</p>
Naphtha (petroleum), hydrotreated light	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [hexán, všetky izoméry okrem n-hexánu] Inhalation sensitiser. TWA 8 hours: 500 ppm (Hexane (isomers)). TWA 8 hours: 1800 mg/m³ (Hexane (isomers)). STEL 15 minutes: 3600 mg/m³ (Hexane (isomers)). STEL 15 minutes: 1000 ppm (Hexane (isomers)).</p>
2-Butoxyethanol	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</p>

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1-Methoxy 2-propanol	<p>Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm.</p>
Butanone	<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: 375 mg/m³. TWA 8 hours: 100 ppm. KTV 15 minutes: 568 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
Naphtha (petroleum), hydrotreated light	<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: 600 mg/m³. TWA 8 hours: 200 ppm. KTV 15 minutes: 900 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 300 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
2-Butoxyethanol	<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: 600 mg/m³. TWA 8 hours: 200 ppm. KTV 15 minutes: 900 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 300 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
1-Methoxy 2-propanol	<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: 98 mg/m³. TWA 8 hours: 20 ppm. KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
Butanone	<p>National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³.</p>
Naphtha (petroleum), hydrotreated light	<p>National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.</p>
2-Butoxyethanol	<p>National institute of occupational safety and health (Spain, 1/2024) [hexano (todos los isómeros excepto n-hexano)] TWA 8 hours: 500 ppm. TWA 8 hours: 1790 mg/m³. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 3580 mg/m³.</p>
2-Butoxyethanol	<p>National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 20 ppm.</p>

SECTION 8: Exposure controls/personal protection

1-Methoxy 2-propanol	<p>TWA 8 hours: 98 mg/m³. STEL 15 minutes: 245 mg/m³. STEL 15 minutes: 50 ppm.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 190 mg/m³. TWA 8 hours: 50 ppm.</p>
Butanone	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.</p>
Naphtha (petroleum), hydrotreated light	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [hexanes] TWA 8 hours: 200 ppm. TWA 8 hours: 700 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 1100 mg/m³.</p>
Linseed-oil	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [oil mist, incl. oil fumes] TWA 8 hours: 1 mg/m³. Form: mist and fume. STEL 15 minutes: 3 mg/m³. Form: mist and fume.</p>
2-Butoxyethanol	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.</p>
1-Methoxy 2-propanol	<p>SUVA (Switzerland, 1/2025) TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 720 mg/m³.</p>
Naphtha (petroleum), hydrotreated heavy	<p>SUVA (Switzerland, 1/2025) STEL 15 minutes: 600 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³.</p>
Butanone	<p>SUVA (Switzerland, 1/2025) Absorbed through skin. TWA 8 hours: 200 ppm. TWA 8 hours: 590 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 590 mg/m³.</p>
Naphtha (petroleum), hydrotreated light	<p>SUVA (Switzerland, 1/2025) TWA 8 hours: 500 ppm. TWA 8 hours: 2000 mg/m³.</p>
Linseed-oil	<p>SUVA (Switzerland, 1/2025) [Triglyceride] STEL 15 minutes: 20 mg/m³. Form: Inhalable fraction. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.</p>
2-Butoxyethanol	<p>SUVA (Switzerland, 1/2025) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m³. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m³.</p>
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	<p>SUVA (Switzerland, 1/2025) [Chrom (Metall und Chrom(III)-Verbindungen)] Sensitiser. TWA 8 hours: 0.5 mg/m³ (calculated as Cr). Form: Inhalable fraction.</p>

SECTION 8: Exposure controls/personal protection

1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 560 mg/m ³ . STEL 15 minutes: 150 ppm. TWA 8 hours: 375 mg/m ³ . TWA 8 hours: 100 ppm.
Butanone	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 899 mg/m ³ . STEL 15 minutes: 300 ppm. TWA 8 hours: 600 mg/m ³ . TWA 8 hours: 200 ppm.
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 123 mg/m ³ .
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	EH40/2005 WELs (United Kingdom (UK), 1/2020) [chromium (III) compounds] TWA 8 hours: 0.5 mg/m ³ (as Cr).

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Butanone	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) BEI: 2.6 mg/g creatinine, ethyl-methyl ketone [in urine]. Sampling time: at the end of the work shift. BEI: 4.08 mmol/mol creatinine, ethyl-methyl ketone [in urine]. Sampling time: at the end of the work shift.
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2- butoxyéthanol et son acétate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).

SECTION 8: Exposure controls/personal protection

1-Methoxy 2-propanol	<p>DFG BEI-values list (Germany, 7/2024) BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling time: end of exposure or end of shift.</p> <p>TRGS 903 - BEI Values (Germany, 10/2024) BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end of exposure or end of shift.</p>
Butanone	<p>DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2 mg/l, 2-butanone [in urine]. Sampling time: end of exposure or end of shift.</p> <p>TRGS 903 - BEI Values (Germany, 10/2024) BEI: 2 mg/l, 2-butanone [in urine]. Sampling time: end of exposure or end of shift.</p>
2-Butoxyethanol	<p>DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts.</p> <p>TRGS 903 - BEI Values (Germany, 10/2024) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.</p>
hydrogen [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxy-5-nitrobenzenesulphonato(3-)]hydroxychromate (1-), compound with 3-[(2-ethylhexyl)oxy]propylamine (1:1)	<p>DFG BEI-values list (Germany, 7/2024) [Chromium and its compounds] BEI: 0.6 µg/l, total chromium [in urine]. Sampling time: end of exposure or end of shift.</p>
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	<p>DFG BEI-values list (Germany, 7/2024) [Chromium and its compounds] BEI: 0.6 µg/l, total chromium [in urine]. Sampling time: end of exposure or end of shift.</p>
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	<p>DFG BEI-values list (Germany, 7/2024) [Chromium and its compounds] BEI: 0.6 µg/l, total chromium [in urine]. Sampling time: end of exposure or end of shift.</p>
No exposure indices known.	
Butanone	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) BEI: 28 µmol/l, methyl-ethyl-ketone [in urine]. Sampling time: at the end of the shift. BEI: 2 mg/l, methyl-ethyl-ketone [in urine]. Sampling time: at the end of the shift.</p>
No exposure indices known.	
Butanone	<p>NAOSH BGVs (Ireland, 1/2011) BMGV: 70 µmol/l, butan-2- one [in urine]. Sampling time: post shift.</p>
2-Butoxyethanol	<p>NAOSH BGVs (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.</p>
No exposure indices known.	
Butanone	<p>Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) BEI: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the exposure or at the end of the shift.</p>
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	

SECTION 8: Exposure controls/personal protection

<p>No exposure indices known.</p> <p>No exposure indices known.</p> <p>No exposure indices known.</p>	
<p>Butanone</p>	<p>Portuguese Institute of Quality (Portugal, 11/2014) BEI: 2 mg/l, methyl ethyl ketone (MEK) [in urine]. Sampling time: end of shift.</p>
<p>2-Butoxyethanol</p>	<p>Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.</p>
<p>Butanone</p>	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) OBLV: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.</p>
<p>hydrogen [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxy-5-nitrobenzenesulphonato(3-)]hydroxychromate (1-), compound with 3-[(2-ethylhexyl)oxy]propylamine (1:1)</p>	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [crom] OBLV: 30 µg/g creatinine, chromium [in urine]. Sampling time: end of the week. OBLV: 10 µg/g creatinine, chromium [in urine]. Sampling time: during work.</p>
<p>Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)</p>	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [crom] OBLV: 30 µg/g creatinine, chromium [in urine]. Sampling time: end of the week. OBLV: 10 µg/g creatinine, chromium [in urine]. Sampling time: during work.</p>
<p>hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)</p>	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [crom] OBLV: 30 µg/g creatinine, chromium [in urine]. Sampling time: end of the week. OBLV: 10 µg/g creatinine, chromium [in urine]. Sampling time: during work.</p>
<p>No exposure indices known.</p> <p>1-Methoxy 2-propanol</p>	
<p>Butanone</p>	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift.</p>
<p>Butanone</p>	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 2 mg/l, 2-butanone [in urine]. Sampling time: at the end of the work shift.</p>
<p>2-Butoxyethanol</p>	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.</p>
<p>Butanone</p>	<p>National institute of occupational safety and health (Spain, 1/2024) VLB: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.</p>
<p>2-Butoxyethanol</p>	<p>National institute of occupational safety and health (Spain, 1/2024) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.</p>

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No exposure indices known.	
1-Methoxy 2-propanol	SUVA (Switzerland, 1/2025) BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 221.9 µmol/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.
Butanone	SUVA (Switzerland, 1/2025) BEI: 2 mg/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm. BEI: 27.7 µmol/l, 2-butanone (MEK) [in urine]. Sampling time: before the next shift or 4pm.
2-Butoxyethanol	SUVA (Switzerland, 1/2025) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
Butanone	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 70 µmol/l, butan-2-one [in urine]. Sampling time: post shift.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

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

DNELs/DMELs

Product/ingredient name

1-Methoxy 2-propanol

Result

DNEL - General population - Long term - Oral

33 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

43.9 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

78 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

183 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

369 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

553.5 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

553.5 mg/m³

Effects: Systemic

SECTION 8: Exposure controls/personal protection

Naphtha (petroleum), hydrotreated heavy

DNEL - General population - Long term - Inhalation

0.41 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.9 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

178.57 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

640 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

837.5 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

1066.67 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

1152 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

1286.4 mg/m³

Effects: Systemic

Butanone

DNEL - General population - Long term - Oral

31 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

106 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

412 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

450 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

600 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

900 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

1161 mg/kg bw/day

Effects: Systemic

Naphtha (petroleum), hydrotreated light

DNEL - General population - Long term - Oral

149 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

149 mg/kg bw/day

SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - Workers - Long term - Dermal

300 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.41 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.9 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

178.57 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

640 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

837.5 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

1066.67 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

1152 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

1286.4 mg/m³

Effects: Systemic

2-Butoxyethanol

DNEL - General population - Long term - Oral

6.3 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Oral

26.7 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

59 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

98 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

147 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

246 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

426 mg/m³

Effects: Systemic

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DNEL - Workers - Short term - Inhalation

1091 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations : Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type: A

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
Butanone	79.59	175.3	
1-Methoxy 2-propanol	120.17	248.3	OECD 103

Flammability	: Not available.
Lower and upper explosion limit	: Lower: 1.05% (Naphtha (petroleum), hydrotreated light) Upper: 11.5% (butanone)
Flash point	: Closed cup: 40°C (104°F)
Auto-ignition temperature	:

Ingredient name	°C	°F	Method
2-Butoxyethanol	230	446	DIN 51794
Naphtha (petroleum), hydrotreated heavy	237	458.6	

Decomposition temperature	: Not available.
pH	: Not applicable.
Viscosity	: Not available.
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
Butanone	78.7564	10.5				
Naphtha (petroleum), hydrotreated light	42.15358	5.6	OECD 104	357.48039	47.7	OECD 104

Relative density	: Not available.
Density	: 0.9 g/cm ³
Vapour density	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties	: Not available.
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

1-Methoxy 2-propanol

Result

Rabbit - Dermal - LD50

13 g/kg

Rat - Oral - LD50

6600 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or Respiration - Dyspnea

Naphtha (petroleum), hydrotreated heavy

Rat - Oral - LD50

>6 g/kg

Rat - Inhalation - LC50 Vapour

8500 mg/m³ [4 hours]

Toxic effects: Lung, Thorax, or Respiration - Other changes

Butanone

Rabbit - Dermal - LD50

6480 mg/kg

Rat - Oral - LD50

2737 mg/kg

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
MATTÖL BUNT 1409-15	71971.8	N/A	N/A	179.9	N/A
1-Methoxy 2-propanol	6600	13000	N/A	N/A	N/A
Butanone	2737	6480	N/A	N/A	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A

Skin corrosion/irritation

Product/ingredient name

Result

SECTION 11: Toxicological information

1-Methoxy 2-propanol

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Butanone

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 14 mg

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 402 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

2-Butoxyethanol

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

1-Methoxy 2-propanol

Result

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

2-Butoxyethanol

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
1-Methoxy 2-propanol	STOT SE 3, H336 (Narcotic effects)
Naphtha (petroleum), hydrotreated heavy	STOT SE 3, H336 (Narcotic effects)
Naphtha (petroleum), hydrotreated heavy	STOT SE 3, H336 (Narcotic effects)
Butanone	STOT SE 3, H336 (Narcotic effects)
Naphtha (petroleum), hydrotreated light	STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromaticshydrocarbons	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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.

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

Butanone

Result

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Larvae

Age: <24 hours

5091000 µg/l [48 hours]

Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 31 days; Size: 22 mm; Weight: 0.167 g

3220000 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Marine water

Algae - Diatom - *Skeletonema costatum*

>500000 µg/l [96 hours]

Effect: Population

2-Butoxyethanol

Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina*

Size: 40 to 100 mm

1250000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon*

800000 µg/l [48 hours]

Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
1-Methoxy 2-propanol	<1	-	Low
Naphtha (petroleum), hydrotreated heavy	-	10 to 2500	High
Butanone	0.3	-	Low
Naphtha (petroleum), hydrotreated light	2.2 to 5.2	10 to 2500	High
2-Butoxyethanol	0.81	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
1-Methoxy 2-propanol	1	10.447
Butanone	1.2	15.8984
2-Butoxyethanol	1.8	67.3685

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
1-Methoxy 2-propanol	No	No	No	No	No	No	No
Naphtha (petroleum), hydrotreated heavy	No	No	No	No	No	No	No
Naphtha (petroleum), hydrotreated heavy	No	No	No	No	No	No	No
Butanone	No	No	No	No	No	No	No
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromaticshydrocarbons	No	No	No	No	No	No	No
Naphtha (petroleum), hydrotreated light	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
hydrogen [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxy-5-nitrobenzenesulphonato (3-)]hydroxychromate(1-), compound with 3-[(2-ethylhexyl)oxy]propylamine (1:1)	No	No	No	No	No	No	No
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	No	No	No	No	No	No	No
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	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]

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
1-Methoxy 2-propanol	No	N/A	N/A	No	N/A	N/A	N/A
Naphtha (petroleum), hydrotreated heavy	No	N/A	N/A	No	N/A	N/A	N/A
Naphtha (petroleum), hydrotreated heavy	No	N/A	No	No	No	N/A	No
Butanone	No	N/A	N/A	No	N/A	N/A	N/A
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromaticshydrocarbons	No	N/A	N/A	No	N/A	N/A	N/A
Naphtha (petroleum), hydrotreated light	No	N/A	No	No	No	N/A	No
2-Butoxyethanol	No	N/A	N/A	No	N/A	N/A	N/A
hydrogen [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxy-5-nitrobenzenesulphonato (3-)]hydroxychromate(1-), compound with 3-[(2-ethylhexyl)oxy]propylamine (1:1)	No	N/A	N/A	No	N/A	N/A	N/A
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	No	N/A	N/A	No	N/A	N/A	N/A
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato (2-)]chromate(1-), compound with 2-ethylhexylamine (1:1)	No	N/A	N/A	No	N/A	N/A	N/A

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
1-Methoxy 2-propanol	No	No	No	No	No	No	No
Naphtha (petroleum), hydrotreated heavy	No	No	No	No	No	No	No
Naphtha (petroleum), hydrotreated heavy	No	No	No	No	No	No	No
Butanone	No	No	No	No	No	No	No
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromaticshydrocarbons	No	No	No	No	No	No	No
Naphtha (petroleum), hydrotreated light	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
hydrogen [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxy-5-nitrobenzenesulphonato (3-)]hydroxychromate(1-), compound with 3-[(2-ethylhexyl)oxy]propylamine (1:1)	No	No	No	No	No	No	No
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	No	No	No	No	No	No	No
hydrogen bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato (2-)]chromate(1-),	No	No	No	No	No	No	No

SECTION 12: Ecological information

compound with
2-ethylhexylamine (1:1)

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

12.6 Endocrine disrupting properties

Not available.

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

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

European waste catalogue (EWC) : 08 01 11

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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

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	No.	Yes.	No.	No.

Additional information

ADR/RID : **Tunnel code** (D/E)

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SECTION 14: Transport information

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
MATTÖL BUNT 1409-15	≥90	3

Labelling :

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : 3907 - Polyacetals, other polyethers and epoxide resins; polycarbonates, alkyd resins, polyallyl esters and other polyesters.

Total percentage of synthetic polymer microparticles : 0.013%

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

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not 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

SECTION 15: Regulatory information

Category

P5c

National regulations

Austria

VbF class : Category 3

Limitation of the use of organic solvents : Permitted.

Belgium

Czech Republic

Storage code : II

Denmark

Fire class : II-1

MAL-code : 3-3

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

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

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

MAL-code: 3-3

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

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

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. 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.

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

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

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

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

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

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

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

SECTION 15: Regulatory information

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

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

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

*See Regulations.

- Low-boiling liquids** : This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.
- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
- List of undesirable substances** : Not listed

Finland

France

- Social Security Code, Articles L 461-1 to L 461-7** :
- | | |
|---|-------|
| 1-Methoxy 2-propanol | RG 84 |
| Naphtha (petroleum), hydrotreated heavy | RG 84 |
| Butanone | RG 84 |
| Naphtha (petroleum), hydrotreated light | RG 84 |
| 2-Butoxyethanol | RG 84 |

- 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

- Hazard class for water** : 3

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	2.6
5.2.2 [III]	Dusty inorganic substances	3.4
5.2.5	Organic substances	94
5.2.5 [I]	Organic substances	40.8
5.2.7.1.3	Reproductive toxic substances	0.019

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
Naphtha (petroleum), hydrotreated heavy	Listed	Listed	-	-	-
Naphtha (petroleum), hydrotreated light	Listed	Listed	-	-	-
Naphtha (petroleum), hydrotreated heavy hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, containing <2% of aromatics, < 0,1% of benzene, < 1% of n-hexane and < 0,5 % of aromatic hydrocarbons	Listed	Listed	-	-	-

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) : 2b

Switzerland

VOC content : VOC (w/w): 48.9%

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

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SECTION 16: Other information

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - 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
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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.

