

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jun 2025

Print date: 26 Jan 2026

Version: 1



REIN ABER RICHTIG

E.MAYR REINIGUNGSTECHNIK

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Exakt Automatenreiniger

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

1.1. Product identifier

Trade name/designation:

Exakt Automatenreiniger/vending machine cleaner

Article No.:

0685

UFI:

X7UM-C92Y-EDD9-K0NN

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

Use of the substance/mixture:

Cleaning agent

Nur für den industriellen und gewerblichen Gebrauch.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

E.MAYR Reinigungstechnik GesmbH

Ortsstraße 285

A-2331 Vösendorf

Austria

Telephone: +43 (0) 1 699 17 64 -0

Telefax: +43 (0) 1 699 17 64 - 33

E-mail: office@e-mayr.at

Website: www.reinaberrichtig.at

1.4. Emergency telephone number

Vergiftungsinformationszentrale für Österreich Tel. 01/406 43 43-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

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2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard statements for health hazards

H319	Causes serious eye irritation.
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Supplemental hazard information

EUH208	Contains d-Limonen. May produce an allergic reaction.
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Precautionary statements Prevention

P264	Wash ... thoroughly after handling.
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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
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Precautionary statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
--------------------	--

P337 + P313	If eye irritation persists: Get medical advice/attention.
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2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

wässrige Lösung

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319) ⚠ Warning Acute Toxicity Estimate ATE (oral) 2,410 mg/kg ATE (dermal) 2,764 mg/kg	1 - < 10 weight-%
CAS No.: 7320-34-5 EC No.: 230-785-7	tetrapotassium pyrophosphate Eye Irrit. 2 (H319) ⚠ Warning Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	1 - < 10 weight-%
CAS No.: 15763-76-5 EC No.: 239-854-6 REACH No.: 01-2119489411-37	sodium p-cumenesulphonate Eye Irrit. 2 (H319) ⚠ Warning Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 5 mg/L	1 - < 10 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 5989-27-5 EC No.: 227-813-5 REACH No.: 01-2119529223-47-XXXX	d-Limonen Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Danger	0.1 - < 1 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed

Serious eye damage/eye irritation, Atemnot, Schmerzen, Nausea, Allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Auf Umgebung abstimmen

Unsuitable extinguishing media:

keine

5.2. Special hazards arising from the substance or mixture

Nicht brennbar.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Special danger of slipping by leaking/spilling product.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid contact with skin, eyes and clothes. Open windows to ensure natural ventilation. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special fire protection measures are necessary. When using do not eat, drink, smoke, sniff.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Industrial sector specific solutions:

Basic cleaner, unlabeled, contains solvents

GISCODE:

GG20

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT) from 11 Sept 2007	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	② 15 ppm (101.2 mg/m ³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)
MAK (AT) from 11 Sept 2007	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Other protection measures:

Protective clothing.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Odour: citrus

Colour: colourless

flammability: No

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Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	8.5	23 °C	
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	No data available		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1.1 g/cm ³	23 °C	
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Violent reaction with: Acid, concentrated White/yellow phosphor Light metal

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

10.5. Incompatible materials

Acid, Glass, Aluminium, Light metal, Oxidising agent, strong

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

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

2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LD₅₀ oral: 2,410 mg/kg (Mouse)
LD₅₀ dermal: 2,764 mg/kg (Rabbit)
tetrapotassium pyrophosphate CAS No.: 7320-34-5 EC No.: 230-785-7
LD₅₀ oral: >2,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rabbit)
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6
LD₅₀ oral: >2,000 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (Kaninchen)
LC₅₀ Acute inhalation toxicity (vapour): >5 mg/L 4 h (Ratte)

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Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Contains d-Limonen. May produce an allergic reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6

LC₅₀: 1,300 mg/L 4 d (Sonnenbarsch) OECD 203

EC₅₀: >100 mg/L 2 d (Daphnia magna)

ErC₅₀: 1,101 mg/L 3 d (Algae/water plant)

tetrapotassium pyrophosphate CAS No.: 7320-34-5 EC No.: 230-785-7

LC₅₀: 203 mg/L 4 d (Regenbogenforelle)

EC₅₀: 797.13 mg/L 2 d (Daphnia magna)

ErC₅₀: 201 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)

NOEC: 201 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)

sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6

LC₅₀: >100 mg/L 4 d (fish, Oncorhynchus mykiss)

EC₅₀: >100 mg/L 2 d (crustaceans, Daphnia magna)

EC₅₀: >100 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata)

LC₅₀: >1,000 mg/L 4 d

EC₅₀: >1,000 mg/L 2 d (Daphnia)

NOEC: 31 mg/L 4 d (Algae/water plant)

ErC₅₀: 230 mg/L 4 d (Algae/water plant)

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d-Limonen CAS No.: 5989-27-5 EC No.: 227-813-5

LC₅₀: 0.46 mg/L 4 d (fish, Danio rerio, Oncorhynchus mykiss, Lepomis macrochirus, Pimephales promelas, Oryzias latipes, Leuciscus idus)

EC₅₀: 0.25 mg/L 2 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))

EC₅₀: 0.214 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))

EC₅₀: 0.688 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC₅₀: 0.307 mg/L 2 d (crustaceans, Daphnia magna)

NOEC: 0.09 mg/L 2 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))

NOEC: 0.08 mg/L 28 d (fish, fish spp.) OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

NOEC: 0.08 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

LOEC: 0.173 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6

Log K_{ow}: = 1

tetrapotassium pyrophosphate CAS No.: 7320-34-5 EC No.: 230-785-7

Log K_{ow}: -2

sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6

Log K_{ow}: -1.1

d-Limonen CAS No.: 5989-27-5 EC No.: 227-813-5

Log K_{ow}: 4.5

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6

Results of PBT and vPvB assessment: —

tetrapotassium pyrophosphate CAS No.: 7320-34-5 EC No.: 230-785-7

Results of PBT and vPvB assessment: —

sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6

Results of PBT and vPvB assessment: —

d-Limonen CAS No.: 5989-27-5 EC No.: 227-813-5

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 06 01 *	(07) WASTES FROM ORGANIC CHEMICAL PROCESSES (06) Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics (01 *) aqueous washing liquids and mother liquors
20 01 29 *	(20) MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS (01) separately collected fractions (except 15 01) (29 *) Detergents containing hazardous substances

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

EU legislation

Labelling for contents according to regulation (EC) No. 648/2004

non-ionic surfactants : <5%

phosphates : < 5

Duftstoffe. Limonene.

National regulations

Hazardous Substances Ordinance (GefStoffV)

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Minimum protective measures according to TRGS 500
Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)
Berufsgenossenschaftliche Regeln (DGUV-Regeln)

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

Substance name	Type	source of supply
d-Limonen CAS No.: 5989-27-5 EC No.: 227-813-5	LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available