

**Safety data sheet
according to 1907/2006/EC, Article 31**

Printing date 06.07.2021

Version number 3 (replaces version 2)

Issue: 06.07.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Trade name: **EVAC CLEAN ECO****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture Cleaning material/ Detergent

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**EVAC GmbH
Feldstr. 124
D - 22880 Wedel

Tel.: (+49)(0)41 03 91 68 0

Fax: (+49)(0)41 03 91 68 90

e-Mail: evac.info@evac-train.com

Further information obtainable from: Department laboratory

1.4 Emergency telephone number: Poison Centre Munich, Tel.: +49 89 19240

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 not applicable

Hazard pictograms not applicable

Signal word not applicable

Hazard statements not applicable

Additional information:

Safety data sheet available on request.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Description: Mixture of substances without specific hazards.

Dangerous components:

CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	10-20%
CAS: 5949-29-1 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42	citric acid monohydrate Eye Irrit. 2, H319	1-2.5%

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· SVHC

None of the ingredients is listed.

· Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information** No special measures required.
- After inhalation** Supply fresh air; consult doctor in case of complaints.
- After skin contact** Immediately rinse with water.
- After eye contact** Rinse opened eye for several minutes under running water.
- After swallowing** Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media**· Suitable extinguishing agents** Use fire extinguishing methods suitable to surrounding conditions.**· 5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· 5.3 Advice for firefighters**· Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.**· 6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**· 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special precautions are necessary if used correctly.**· Information about fire - and explosion protection:** No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****34590-94-8 Dipropylene glycol monomethyl ether**

WEL (Great Britain)	Long-term value: 308 mg/m ³ , 50 ppm Sk
IOELV (European Union)	Long-term value: 308 mg/m ³ , 50 ppm Skin

· **Regulatory information**

WEL (Great Britain): EH40/2020

IOELV (European Union): (EU) 2019/1831

· **DNELs****34590-94-8 Dipropylene glycol monomethyl ether**

Oral	DNEL (Long-term - systemic effects)	36 mg/kg bw/day (general population)
Dermal	DNEL (Long-term - systemic effects)	283 mg/kg bw/day (worker)
		121 mg/kg bw/day (general population)
Inhalative	DNEL (Long-term - systemic effects)	308 mg/m ³ (worker)
		37.2 mg/m ³ (general population)

· **PNECs****34590-94-8 Dipropylene glycol monomethyl ether**

PNEC	4,168 mg/l (sewage treatment plant)
PNEC	2.74 mg/kg dw (ground)
PNEC aqua	1.9 mg/l (sea water)
	190 mg/l (intermittent releases)
PNEC sediment	19 mg/l (freshwater)
	7.02 mg/kg dw (sea water)
	70.2 mg/kg dw (freshwater)

5949-29-1 citric acid monohydrate

PNEC	1,000 mg/l (sewage treatment plant)
PNEC	33.1 mg/kg dw (ground)
PNEC aqua	0.044 mg/l (sea water)
	0.44 mg/l (freshwater)
PNEC sediment	3.46 mg/kg dw (sea water)
	34.6 mg/kg dw (freshwater)

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Hand protection**



Protective gloves (EN 374)

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Because of the large variety of types, the instructions of the manufacturer must be observed.
- **Eye/face protection**



Safety glasses

- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Yellow
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** undetermined
- **Boiling point or initial boiling point and boiling range** 100 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 1.1 Vol %
- **Upper:** 14.0 Vol %
- **Flash point:** >79 °C
- **Auto-ignition temperature:** Product is not selfigniting.
- **Decomposition temperature:** Not determined.
- **pH** Not determined.
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **dynamic:** Not determined.

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· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density and/or relative density	
· Density at 20 °C:	1.08 g/cm ³ (DIN 51757)
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	207 °C
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	not applicable
· Flammable gases	not applicable
· Aerosols	not applicable
· Oxidising gases	not applicable
· Gases under pressure	not applicable
· Flammable liquids	not applicable
· Flammable solids	not applicable
· Self-reactive substances and mixtures	not applicable
· Pyrophoric liquids	not applicable
· Pyrophoric solids	not applicable
· Self-heating substances and mixtures	not applicable
· Substances and mixtures, which emit flammable gases in contact with water	not applicable
· Oxidising liquids	not applicable
· Oxidising solids	not applicable
· Organic peroxides	not applicable
· Corrosive to metals	not applicable
· Desensitised explosives	not applicable

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

34590-94-8 Dipropylene glycol monomethyl ether

Oral	LD ₅₀	5,135 mg/kg (rat)
Dermal	LD ₅₀	9,510 mg/kg (rat)
Inhalative	LC ₅₀ /4 h	55-60 mg/l (rat)

5949-29-1 citric acid monohydrate

Oral	LD ₅₀	5,400 mg/kg (mouse) (OECD 401)
Dermal	LD ₅₀	>2,000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation**

5949-29-1 citric acid monohydrate

Irritation of skin	OECD 404 (skin)	(rabbit) non irritant
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- **Serious eye damage/irritation**

5949-29-1 citric acid monohydrate

Irritation of eyes	OECD 405 (eye)	(rabbit) irritant
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- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Results from studies:**

5949-29-1 citric acid monohydrate

Sensitisation	OECD 406	(guinea pig) Not sensitizing
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- **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 toxicological information:**

The product was not tested. The statements is derived from the characteristics of the single components.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

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SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****34590-94-8 Dipropylene glycol monomethyl ether**

LC ₅₀ /96 h	>10,000 mg/l (Pimephales promelas) 969 mg/l (Senastrum capricornutum)
LC ₅₀ /48 h	1,919 mg/l (Daphnia magna)

5949-29-1 citric acid monohydrate

LC ₅₀ /96 h	440-760 mg/l (DIN 38412 L15)
LC ₅₀ /48 h (static)	440 mg/l (Leuciscus idus) (OECD 203)
EC ₅₀ /24 h	1,535 mg/l (Daphnia magna) (Bringmann/Kuhn)

12.2 Persistence and degradability**5949-29-1 citric acid monohydrate**

biodegradability	97 % (OECD 301 B (CO ₂ Evolution (Modified Sturm Test))) readily biodegradable
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Other Information: No data available**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects**Additional ecological information:****5949-29-1 citric acid monohydrate**

COD value	728 mg O ₂ /g
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General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation** Must be specially treated adhering to official regulations.**Uncleaned packaging:****Recommendation:** Packaging may be reused or recycled after cleaning.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**SECTION 14: Transport information****14.1 UN number or ID number****ADR, ADN, IMDG, IATA**

not applicable

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- **14.2 UN proper shipping name**
· **ADR, ADN, IMDG, IATA** not applicable
- **14.3 Transport hazard class(es)**
· **ADR, ADN, IMDG, IATA**
· **Class** not applicable
- **14.4 Packing group**
· **ADR, IMDG, IATA** not applicable
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** not applicable

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H319 Causes serious eye irritation.
- **Department issuing SDS:** Department laboratory
- **Abbreviations and acronyms:**
ALD: Approximate Lethal Dose
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- *** Data compared to the previous version altered.**