

Page 1/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

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

- · 1.1 Product identifier
- · Trade name: ENVIROCLEAN FRESH
- · 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 Flush-water fluid for vacuum toilets
- · 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-train@zodiacaerospace.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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.

(Contd. on page 2)



Page 2/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

Trade name: ENVIROCLEAN FRESH

(Contd. of page 1)

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixture
- · Description: Mixture of substances listed below with nonhazardous additions.

· 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: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6 Reg.nr.: 01-2119945987-15	didecyldimethylammonium chloride Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Acute Tox. 4, H302	≥1-<2.5%	
· SVHC			
None of the ingredients is listed.			
Regulation (EC) No 648/2004 on detergents / Labelling for contents			
amphotoric curfactante		>5 - 15%	

amphoteric surfactants	≥5 - <15%
cationic surfactants, phosphonates	<5%
perfumes (LIMONENE, CITRAL)	

· 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 Immediately remove any clothing soiled by the product.
- · 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. If symptoms persist, consult a doctor.

- · 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

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture

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

(Contd. on page 3)



Page 3/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

Trade name: ENVIROCLEAN FRESH

(Contd. of page 2)

- · 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).

· 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.
- · 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

- · Additional information about design of technical facilities: No further data; see item 7.
- · 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/m³, 50 ppm Sk	
	Long-term value: 308 mg/m³, 50 ppm Skin	

Regulatory information

WEL (Great Britain): EH40/2011

IOELV (European Union): (EU) 2017/164

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment
- General protective and hygienic measures

Wash hands before breaks and at the end of work.

(Contd. on page 4)



Page 4/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

Trade name: ENVIROCLEAN FRESH

(Contd. of page 3)

Avoid contact with the eyes.

- Respiratory protection: Not required.
- Protection of hands:



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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. Because of the large variety of types, the instructions of the manufacturer must be observed.

· Eye 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
- · Appearance:

Form: Fluid turquoise

Odour: Characteristic

Odour threshold: Not determined.

pH-value: Not determined.

· Change in condition

Melting point/freezing point: undetermined Initial boiling point and boiling range: 100 °C

Flash point: Not applicableFlammability (solid, gaseous) Not applicable.

· Ignition temperature: 207 °C

· Decomposition temperature: Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower: 1.1 Vol %

(Contd. on page 5)



Page 5/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

Trade name: ENVIROCLEAN FRESH

(Contd. of page 4)

Upper: 14.0 Vol % Vapour pressure at 20 °C: 23 hPa

Density at 20 °C: 1.06 g/cm³ (DIN 51757)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Fully miscible

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic: Not determined. **kinematic:** Not determined.

• 9.2 Other information No further relevant information available.

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.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

7173-51-5 didecyldimethylammonium chloride

Oral LD_{50} 329 mg/kg (rat) (OECD 401) Dermal LD_{50} 3,342 mg/kg (rabbit) (OECD 404)

- · Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation
- Causes serious eve irritation.
- Respiratory or skin sensitisation 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.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.

(Contd. on page 6)



Page 6/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

Trade name: ENVIROCLEAN FRESH

(Contd. of page 5)

- · 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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

7173-51-5 didecyldimethylammonium chloride

LC₅₀/96 h 0.49 mg/l (Brachydanio rerio) (OECD 203 (Fish, Acute Toxicity Test))

NOEC/72 h | 0.013 mg/l (Pseudokirchneriella subcapitata)

NOEC/21 d 0.021 mg/l (Daphnia magna) (OECD 211)

EC₅₀/48 h 0.029 mg/l (Daphnia magna) (OECD 202 (Daphnia sp. Acute Immobilisation Test))

12.2 Persistence and degradability

7173-51-5 didecyldimethylammonium chloride

biodegradability 72 % (OECD 301 B)

Leicht biologisch abbaubar

- · Other Information: No data available
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:

phosphoric compounds, organic

- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Must be specially treated adhering to official regulations.
- · Waste disposal key:

The allocation of the waste disposal key number is to be executed after the European refuse catalog industry and process specifically.

- · Uncleaned packaging:
- · Recommendation: Packaging may be reused or recycled after cleaning.

(Contd. on page 7)



Page 7/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

Trade name: ENVIROCLEAN FRESH

(Contd. of page 6)

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, ADN, IMDG, IATA not applicable

· 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 Transport in bulk according to Annex II of

Marpol and the IBC Code

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.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · Regulation (EU) No 649/2012

7173-51-5 didecyldimethylammonium chloride

Annex I Part 1

- · National regulations
- · Technical instructions (air):

Class	Share in %
NK	≥10-<20

· 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

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

(Contd. on page 8)



Page 8/8

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

Printing date 10.09.2019 Version number 3 Issue: 14.03.2019

Trade name: ENVIROCLEAN FRESH

(Contd. of page 7)

H411 Toxic to aquatic life with long lasting effects.

· Classification according to Regulation (EC) No 1272/2008			
Skin corrosion/irritation	The classification of the mixture is generally based on		
Serious eye damage/eye irritation	the calculation method using substance data according		
	to Regulation (EC) No 1272/2008.		

- · Department issuing SDS: Department laboratory
- Abbreviations and acronyms:

ALD: Approximate Lethal Dose

ADR: Accord européen sur le transport 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)

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

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

* Data compared to the previous version altered.

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