

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

- **1.1 Product identifier**
- **Trade name: *Fleckenentferner Blut-Ex***
- **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:**  
*Cleanfix  
Reinigungssysteme AG  
Stettenstrasse  
9247 Henau  
Tel. +41 (0)71 955 47 47  
Fax +41 (0)71 955 47 60*
- **Further information obtainable from:**  
*info@cleanfix.com  
Tel. +41 (0)71 955 47 47  
Fax +41 (0)71 955 47 60*
- **1.4 Emergency telephone number:**  
*Centre suisse d'information toxicologique, Zurich  
+41 (0)44 251 51 51 ou 145 (depuis la Suisse)  
Schweizerisches Toxikologisches Informationszentrum, Zürich  
+41 (0)44 251 51 51 oder aus der Schweiz: Tel 145  
Centro Svizzero d'informazione tossicologica  
+41 (0)44 251 51 51 o dalla Svizzera: Tel 145*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

*Eye Dam. 1 H318 Causes serious eye damage.*



GHS07

*Acute Tox. 4 H302 Harmful if swallowed.*

- **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** *GHS05, GHS07*
- **Signal word** *Danger*

- **Hazard-determining components of labelling:**

*Alcohol C13-iso, ethoxylated 5 EO  
Alcohol C13-iso, ethoxylated 9.5 EO*

- **Hazard statements**

*H302 Harmful if swallowed.  
H318 Causes serious eye damage.*

- **Precautionary statements**

*P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/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.  
P310 Immediately call a POISON CENTER/doctor.*

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## according to 1907/2006/EC, Article 31

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. of page 1)

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

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

· **Dangerous components:**

CAS: 9043-30-5 NLP: 500-027-2	Alcohol C13-iso, ethoxylated 5 EO ☞ Eye Dam. 1, H318	25-50%
CAS: 9043-30-5 NLP: 500-027-2	Alcohol C13-iso, ethoxylated 9.5 EO ☞ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302	20-25%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol ☞ Flam. Liq. 3, H226; ☠ STOT SE 3, H336	5-10%
CAS: 9014-01-1 EINECS: 232-752-2 Reg.nr.: 01-2119480434-38	Subtilisin ☞ Resp. Sens. 1, H334; ☞ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335	≥0.1-<1%

· **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**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **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** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.

· **6.2 Environmental precautions:**

Dilute with plenty of water.

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.

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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.
- **Storage class:** 10
- **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:**

#### **107-98-2 1-methoxy-2-propanol**

WEL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm
	Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
Sk	

#### **9014-01-1 Subtilisin**

WEL	Long-term value: 0.00004 mg/m <sup>3</sup>
Sen	

#### **DNELs**

#### **107-98-2 1-methoxy-2-propanol**

Oral	DNEL long term systemic effects	3.3 mg/kg bw/day (general population)
Dermal	DNEL long term systemic effects	18.1 mg/kg bw/day (general population) 50.6 mg/kg bw/day (workers)
Inhalative	DNEL long term systemic effects	43.9 mg/m <sup>3</sup> (general population) 369 mg/m <sup>3</sup> (workers)
	DNEL short term local effects	553.5 mg/m <sup>3</sup> (workers)

#### **PNECs**

#### **107-98-2 1-methoxy-2-propanol**

PNEC	100 mg/l (sewage plant)
PNEC aqua	10 mg/l (fresh water)
PNEC sediment	41.6 mg/kg (fresh water) 4.17 mg/kg (sea water)
PNEC ground	2.47 mg/kg (ground)

- **Additional information:** The lists valid during the making were used as basis.

#### **8.2 Exposure controls**

##### **Personal protective equipment:**

##### **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.

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

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- **Material of gloves** *Rubber gloves*
- **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.*
- **Eye protection:** *Goggles recommended during refilling*

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

· <b>Form:</b>	<i>Fluid</i>
· <b>Colour:</b>	<i>Colourless</i>
· <b>Odour:</b>	<i>Characteristic</i>
· <b>Odour threshold:</b>	<i>Not determined.</i>

· **pH-value at 20 °C:** *9*

##### · Change in condition

· <b>Melting point/freezing point:</b>	<i>Undetermined.</i>
· <b>Initial boiling point and boiling range:</b>	<i>100 °C</i>

· **Flash point:** *101 °C*

· **Flammability (solid, gas):** *Not applicable.*

· **Ignition temperature:** *270 °C*

· **Decomposition temperature:** *Not determined.*

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

· **Explosive properties:** *Product does not present an explosion hazard.*

##### · Explosion limits:

· <b>Lower:</b>	<i>2.3 Vol %</i>
· <b>Upper:</b>	<i>~20 Vol %</i>

· **Vapour pressure at 20 °C:** *23 hPa*

· **Density at 20 °C:** *0.998 g/cm<sup>3</sup>*

· **Relative density** *Not determined.*

· **Vapour density** *Not determined.*

· **Evaporation rate** *Not determined.*

##### · Solubility in / Miscibility with water:

*Fully miscible.*

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

##### · Viscosity:

· **Dynamic:** *Not determined.*

· **Kinematic:** *Not determined.*

· **Organic solvents:** *10.0 %*

· **Water:** *28.2 %*

· **Solids content:** *0.4 %*

· **9.2 Other information** *No further relevant information available.*

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** *No further relevant information available.*

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- **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**  
Harmful if swallowed.

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

**9043-30-5 Alcohol C13-iso, ethoxylated 5 EO**

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

**9043-30-5 Alcohol C13-iso, ethoxylated 9.5 EO**

Oral	LD50	>300-2,000 mg/kg (Rat) (CESIO recommendation)
Dermal	LD50	>2,000 mg/kg (Rabbit)

**107-98-2 1-methoxy-2-propanol**

Oral	LD50	5,000 mg/kg (Rat)
Dermal	LD50	13,500 mg/kg (Rabbit)

**9014-01-1 Subtilisin**

Oral	LD50	3,700 mg/kg (Rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**9043-30-5 Alcohol C13-iso, ethoxylated 5 EO**

EC50 (48h)	>1-10 mg/l (Daphnia magna) (OECD 202)
EC50 (72h)	>1-10 mg/l (Desomdemus subspicatus) (OECD 201)
NOEC	1.36 mg/l (Daphnia magna)
LC50 (96h)	>1-10 mg/l (Cyprinus carpio) (OECD 203)

**9043-30-5 Alcohol C13-iso, ethoxylated 9.5 EO**

EC50 (48h)	>1-10 mg/l (Daphnia magna) (OECD 202)
EC50 (72h)	>1-10 mg/l (Desomdemus subspicatus) (OECD 201)
LC50 (96h)	>1-10 mg/l (Cyprinus carpio) (OECD 203)

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**107-98-2 1-methoxy-2-propanol**

EC50 (48h)	23,300 mg/l ( <i>Daphnia magna</i> )
LC50 (96h)	>4,000 mg/l ( <i>leu</i> ) 20,800 mg/l ( <i>Pimephales promelas</i> )

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

- **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**

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 29*	detergents containing hazardous substances

- **Uncleaned packaging:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

- **14.1 UN-Number**

- **ADR, ADN, IMDG, IATA** Void

- **14.2 UN proper shipping name**

- **ADR, ADN, IMDG, IATA** Void

- **14.3 Transport hazard class(es)**

- **ADR, ADN, IMDG, IATA**

- **Class** Void

- **14.4 Packing group**

- **ADR, IMDG, IATA** Void

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- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>14.5 Environmental hazards:</b>                                             |                 |
| · <b>Marine pollutant:</b>                                                       | No              |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                                  | Void            |

### 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

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
None of the ingredients is listed.

- **National regulations:**

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

non-ionic surfactants	≥30%
soap, enzymes, preservation agents (PYRITHIONE SODIUM, BENZISOTHIAZOLINONE)	<5%

- **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**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

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

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*  
*Resp. Sens. 1: Respiratory sensitisation – Category 1*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*  
· **\* Data compared to the previous version altered.**

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