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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.04.2023

Version number 2.3 (replaces version 2.2)

Revision: 06.04.2023

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

- · 1.1 Product identifier
- · Trade name: Reiniger Flux-Ex 401
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- $\cdot$  Technical function Cleaning agent
- · Application of the substance / the mixture Surface cleaning
- 1.3 Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Stannol GmbH & Co. KG Haberstrasse 24

+49 (0) 2051 3120 332 sdb@stannol.de

D-42551 Velbert

 Further information obtainable from: Product Safety Department
 1.4 Emergency telephone number: 8:00 am - 5:00 pm (CET) +49 (0) 2051 3120 332

National Poisons Information Service +44 121 507 4123

Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

### **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

#### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



· Signal word Warning

· Hazard-determining components of labelling:

1-ethoxypropan-2-ol

Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

## · Precautionary statements

	i recautionary statements		
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
	P271	Use only outdoors or in a well-ventilated area.	
	P280	Wear protective gloves / eye protection.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre-			
		easy to do. Continue rinsing.	
	P337+P313	If eye irritation persists: Get medical advice/attention.	
	P403+P235	Store in a well-ventilated place. Keep cool.	



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Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

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

P405

P501

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

· Dangerous components:

CAS: 1569-02-4 1-ethoxypropan-2-ol EINECS: 216-374-5

Flam. Liq. 3, H226 Eye Irrit. 2, H319; STOT SE 3, H336

80 - 100%

· 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. If symptoms persist, 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:

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 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 Ensure adequate ventilation Wear protective clothing.
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). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
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. Page 2/8

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#### **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:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### • 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: Keep container tightly sealed.
- Storage class: 3
- 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

## Avoid contact with the eyes and skin.

Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A

#### Hand protection



Protective gloves

Solvent resistant gloves

Rubber gloves

Synthetic rubber gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves** 

## Nitrile rubber, NBR

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 determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.



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(Contd. of page 3) The exact break through time has to be found out by the manufacturer of the protective gloves and has to be

observed.

· Eye/face protection Safety glasses

#### **SECTION 9: Physical and chemical properties**

<ul> <li>9.1 Information on basic physical and chemical prop</li> <li>General Information</li> </ul>	perties
· Physical state	Fluid
· Colour:	Clear
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling rang	
·Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	1.3 Vol % (CAS: 1569-02-4 1-ethoxypropan-2-ol)
· Upper:	12 Vol % (CAS: 1569-02-4 1-ethoxypropan-2-ol)
Flash point:	40 °C (CAS: 1569-02-4 1-ethoxypropan-2-ol)
· Auto-ignition temperature:	255 °C (CAS: 1569-02-4 1-ethoxypropan-2-ol)
Decomposition temperature:	Not determined.
∙рН	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
Kinematic viscosity	
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Vapour pressure:	
· Density and/or relative density	
· Density:	Not determined.
<ul> <li>Relative density</li> <li>Vapour density</li> </ul>	Not determined. Not determined.
	Not determined.
<ul> <li>9.2 Other information</li> </ul>	
· Appearance:	
· Form:	Fluid
Important information on protection of health an	d
environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	anvapour mixtures are possible.
· Organic solvents:	98.0 %
· Water:	2.0 %
· VOC (EC)	98.00 %
· Solids content:	0.0 %
· Change in condition	
· Evaporation rate	Not determined.
•	
Information with regard to physical hazard classes     Explosives	Void
· Explosives	Void
· Flammable gases · Aerosols	Void Void
· Oxidising gases	Void
Originity yases	VUIU



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· Gases under pressure · Flammable liquids · Flammable solids	Void Flammable liquid and vapour. Void
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
<ul> <li>Self-heating substances and mixtures</li> </ul>	Void
· Substances and mixtures, which emit flammable	
gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
· Desensitised explosives	Void

#### **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 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:

CAS: 1569-02-4 1-ethoxypropan-2-ol

Oral LD50 4,900 mg/kg (rat)

Dermal LD50 9,500 mg/kg (rab)

· Serious eye damage/irritation Causes serious eye irritation.

- · STOT-single exposure May cause drowsiness or dizziness.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

#### **SECTION 12: Ecological information**

- 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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.
- · 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. (Contd. on page 6)

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· 12.7 Other adverse effects

- · 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.

SECTION 13: Dis	oosal considerations
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- · 13.1 Waste treatment methods
- · Recommendation

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

- · Uncleaned packaging:
- · Recommendation: Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

necentinended cleanenty agente. Water, in housedary together with cleanoning agents.			
SECTION 14: Transport information			
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN3271		
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG, IATA</li> </ul>	3271 ETHERS, N.O.S. (1-ethoxypropan-2-ol) ETHERS, N.O.S. (1-ethoxypropan-2-ol)		
· 14.3 Transport hazard class(es)			
· ADR, IMDG, IATA			
· Class · Label	3 Flammable liquids. 3		
· 14.4 Packing group · ADR, IMDG, IATA	III		
· 14.5 Environmental hazards:	Not applicable.		
<ul> <li>• 14.6 Special precautions for user</li> <li>• Hazard identification number (Kemler code):</li> <li>• EMS Number:</li> <li>• Stowage Category</li> </ul>	Warning: Flammable liquids. 30 F-E,S-D A		
<ul> <li>14.7 Maritime transport in bulk according to IMC instruments</li> </ul>	D Not applicable.		
· Transport/Additional information:			
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml		
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 D/E (Contd. on page 7)		

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· IMDG

Trade name: Reiniger Flux-Ex 401

· Limited quantities (LQ)

· Excepted quantities (EQ)

Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 3271 ETHERS, N.O.S. (1-ETHOXYPROPAN-2-OL), 3, III

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture - Labelling according to Regulation (EC) No 1272/2008

5L

- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



#### · Signal word Warning

### · Hazard-determining components of labelling:

- 1-ethoxypropan-2-ol
- Hazard statements
- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

## Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P271	Use only outdoors or in a well-ventilated area.		
P280	Wear protective gloves / eye 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.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P403+P235	Store in a well-ventilated place. Keep cool.		
D405	Store looked up		

- P405 Store locked up. P501
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 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. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Department issuing SDS: Product Safety Department

· Contact: Hr. Dörr



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· Abbreviations and acronyms:

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)

VOC: Volatile Organic Compounds (USA, EU) 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 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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