## Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

#### 1.1 Product identifier

Product name : STAIN-EX 2

UFI : WHD9-NQUC-F800-QYJT

Product code 115375E

Use of the

Substance/Mixture

Cleaning product

Substance type: : Mixture

For professional users only.

Product dilution information : No dilution information provided.

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

Identified uses : Prespotter/Stain remover. Manual process

Recommended restrictions

on use

: Reserved for industrial and professional use.

## 1.3 Details of the supplier of the safety data sheet

Company : Ecolab Deutschland GmbH

Ecolab-Allee 1

40789 Monheim am Rhein, Germany +49 (0)2173 599 0

OfficeService.DEDUS@ecolab.com

## 1.4 Emergency telephone number

Emergency telephone

number

: +32-(0)3-575-5555 Trans-european, German speaking, 24/7

or +49 32 212249407 German speaking, 24/7

Poison Information Centre : +49 (0)551 38318854

telephone number

Date of Compilation/Revision : 12.01.2023 Version 4.0

## **Section: 2. HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319 Specific target organ toxicity - single exposure, Category 3, H336

Central Nervous System

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The classification of this product is based on toxicological assessment.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements : Prevention:

P261 Avoid breathing vapours.

P280e Wear eye protection/face protection.

Hazardous components which must be listed on the label: gamma butyrolactone

## 2.3 Other hazards

None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

#### **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC) No 1272/2008	: [%]
	REACH No.	, ,	
gamma butyrolactone	96-48-0	Acute toxicity Category 4; H302	>= 30 - < 50
	202-509-5	Serious eye damage Category 1; H318	
	01-2119471839-21	Specific target organ toxicity - single	
		exposure Category 3; H336	
2-(2-butoxyethoxy)ethanol	112-34-5	Eye irritation Category 2; H319	>= 30 - < 50
	203-961-6		
	01-2119475104-44		

For the full text of the H-Statements mentioned in this Section, see Section 16.

# Section: 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Get medical attention.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention

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if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

## 4.3 Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

## **Section: 5. FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

## 5.3 Advice for firefighters

for firefighters

Special protective equipment: Use personal protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. In the event of

fire and/or explosion do not breathe fumes.

## Section: 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

: Ensure clean-up is conducted by trained personnel only. Refer to

protective measures listed in sections 7 and 8.

Advice for emergency

responders

: If specialised clothing is required to deal with the spillage, take

note of any information in Section 8 on suitable and unsuitable

materials.

## 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

## 6.3 Methods and materials for containment and cleaning up

Stop leak if safe to do so. Contain spillage, and then collect with Methods for cleaning up

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

## Section: 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. Use only with adequate

ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective

Equipment (PPE).

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep out of reach of children. Keep container tightly closed. Store

in suitable labeled containers.

Storage temperature : 5 °C to 40 °C

## 7.3 Specific end uses

Specific use(s) : Prespotter/Stain remover. Manual process

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.		Value type (Form of exposure)	Control parameters	Basis
2-(2-	112-34-5		AGW	100 mg/m3	TRGS 900
butoxyethoxy)ethanol					
Further information	DFG	Senate commission for the review of compounds at the work place dangerous			
		for the health (MAK-commission).			
	EU	European Union (The EU has established a limit value: deviations in value			
		and peak limit are possible)			
	Υ	When there is compliance with the OEL and biological tolerance values,			nce values, there
		is no risk of harming the unborn child			
			AGW	10 ppm	TRGS 900
				67 mg/m3	
Further information	DFG	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
	EU	European Union (The EU has established a limit value: deviations in value and peak limit are possible)			
	11	Sum of vapor and aerosols.			

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Y	When there is compliance with the OEL and biological tolerance values, there
	is no risk of harming the unborn child

DNEL		
DNEL 2-(2-butoxyethoxy)ethanol	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Short-term - local Value: 101.2 mg/m3  End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 20 mg/kg  End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 67.5 mg/m3  End Use: Workers Exposure routes: Inhalation
		Exposure routes: Inhalation Potential health effects: Short-term - local Value: 67.5 mg/m3

## PNEC

2-(2-butoxyethoxy)ethanol	:	Fresh water Value: 1 mg/l
		Marine water Value: 0.1 mg/l
		Intermittent use/release Value: 3.9 mg/l
		Sewage treatment plant Value: 200 mg/l
		Sediment Value: 4 mg/kg
		Soil Value: 0.4 mg/kg
		Oral Value: 56 mg/kg

## 8.2 Exposure controls

## Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

## Individual protection measures

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Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling.

Eye/face protection (EN 166) : Safety glasses with side-shields

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or equivalent, with filter type:A-P

#### **Environmental exposure controls**

General advice : Consider the provision of containment around storage vessels.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless Odour odourless : 4.4, 100 % pΗ

Particle characteristics

Assessment : not applicable Particle size : not applicable Particle Size Distribution : not applicable **Dustiness** : not applicable Specific surface area : not applicable Surface charge/Zeta : not applicable

potential

Shape : not applicable Crystallinity not applicable Surface treatment : not applicable

/Coatings

Flash point : 103 °C closed cup

Odour Threshold : Not applicable and/or not determined for the mixture Melting point/freezing point : Not applicable and/or not determined for the mixture Boiling point, initial boiling : Not applicable and/or not determined for the mixture

point and boiling range

Evaporation rate : Not applicable and/or not determined for the mixture **Flammability** Not applicable and/or not determined for the mixture

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Upper explosion limit : Not applicable and/or not determined for the mixture

Lower explosion limit : Not applicable and/or not determined for the mixture

Vapour pressure : Not applicable and/or not determined for the mixture

Relative vapour density : Not applicable and/or not determined for the mixture

Density and / or relative

density

: 1.036

Water solubility : soluble

Solubility in other solvents : Not applicable and/or not determined for the mixture Partition coefficient: n- : Not applicable and/or not determined for the mixture octanol/water (log value)

Auto-ignition temperature : Not applicable and/or not determined for the mixture Thermal decomposition : Not applicable and/or not determined for the mixture

Viscosity, kinematic : 17.406 mm2/s (40 °C)

Explosive properties : Not applicable and/or not determined for the mixture Oxidizing properties : The substance or mixture is not classified as oxidizing.

#### 9.2 Other information

Not applicable and/or not determined for the mixture

## Section: 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

## 10.4 Conditions to avoid

None known.

## 10.5 Incompatible materials

Organic materials

## 10.6 Hazardous decomposition products

Decomposition products may include the following materials: Carbon oxides

## Section: 11. TOXICOLOGICAL INFORMATION

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

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exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

**Product** 

: Acute toxicity estimate : > 2,000 mg/kg Acute oral toxicity

: There is no data available for this product. Acute inhalation toxicity

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: Eye irritationThe classification of this product is based on

toxicological assessment.

Respiratory or skin

sensitization

: There is no data available for this product.

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : gamma butyrolactone LD50 rat: 1,582 mg/kg

2-(2-butoxyethoxy)ethanol LD50 rat: 3,306 mg/kg

Components

Acute dermal toxicity : 2-(2-butoxyethoxy)ethanol LD50 rabbit: 2,764 mg/kg

**Potential Health Effects** 

Eyes : Causes serious eye irritation.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Inhalation may cause central nervous system effects.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Experience with human exposure** 

Eye contact : Redness, Pain, Irritation

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Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : Dizziness, Drowsiness

## 11.2 Information on other hazards

Further information : no data available

## **Section: 12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

Environmental Effects : Harmful to aquatic life.

**Product** 

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : gamma butyrolactone

96 h LC50 Lepomis macrochirus (Bluegill sunfish): 56 mg/l

2-(2-butoxyethoxy)ethanol 96 h LC50 Fish: 1,300 mg/l

## 12.2 Persistence and degradability

#### **Product**

no data available

Components

Biodegradability : gamma butyrolactone

Result: Readily biodegradable.

2-(2-butoxyethoxy)ethanol Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

#### **Product**

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very

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persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

#### 12.7 Other adverse effects

no data available

## Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 13.1 Waste treatment methods

Product : Do not contaminate storm water drains, natural waterways or soil

with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local,

state, and federal regulations.

Guidance for Waste Code

selection

: Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC)

and local regulations.

## **Section: 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (ADR/ADN/RID)

14.1 UN number or ID : Not dangerous goods

number

14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for
Not dangerous goods
Not dangerous goods

user

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#### Air transport (IATA)

14.1 UN number or ID : Not dangerous goods

number

14.2 UN proper shipping : Not dangerous goods

name

: Not dangerous goods 14.3 Transport hazard

class(es)

: Not dangerous goods 14.4 Packing group 14.5 Environmental hazards : Not dangerous goods 14.6 Special precautions for : Not dangerous goods

user

## Sea transport (IMDG/IMO)

14.1 UN number or ID : Not dangerous goods

number

14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group : Not dangerous goods : Not dangerous goods 14.5 Environmental hazards 14.6 Special precautions for : Not dangerous goods

14.7 Maritime transport in : Not dangerous goods

bulk according to IMO

instruments

## **Section: 15. REGULATORY INFORMATION**

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

Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Candidate List of Substances : Not applicable.

of Very High Concern for

Authorisation

## **National Regulations**

## Take note of Dir 94/33/EC on the protection of young people at work.

Hazard class for water : WGK 1

Classification according to AwSV, Annex 1

German storage class : 10

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

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## Section: 16. OTHER INFORMATION

#### Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Eye irritation 2, H319	Based on product data or assessment
Specific target organ toxicity - single exposure 3, H336	Calculation method

#### **Full text of H-Statements**

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Annex: Exposure Scenarios** 

Exposure Scenario: Prespotter/Stain remover. Manual process

Life Cycle Stage : Widespread use by professional workers

Product category : **PC35** Washing and cleaning products (including solvent based

products)

Contributing scenario controlling environmental exposure for:

Environmental release

category

: **ERC8a** Wide dispersive indoor use of processing aids in open

systems

Daily amount per site : 7.5 kg

Type of Sewage Treatment

Plant

: Municipal sewage treatment plant

Contributing scenario controlling worker exposure for:

Process category : **PROC10** Roller application or brushing

Exposure duration : 480 min

Operational conditions and

risk management measures

: Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : **PROC11** Non industrial spraying

Exposure duration : 60 min

Operational conditions and

risk management measures

: Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

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# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

# STAIN-EX 2

Skin Protection : see section 8

Respiratory Protection : see section 8

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