

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

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

#### 1.1 Product identifier

Trade name	<b>Zewo Industrivask Citrus ZI-3</b>
Registration number (REACH)	not relevant (mixture)
Product code(s)	95826

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

Relevant identified uses	cleaning agent industrial uses professional uses
Uses advised against	Do not use for private purposes (household).

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

Zewo Chemicals A.S.  
Eggesbøven 22  
6092 Fosnavag  
Norway  
Tel: +47 70 08 12 50  
E-mail: post@zewo.no  
Web: www.zewo.no

#### 1.4 Emergency telephone number

Emergency information service for emergency responders  
This number is only for medical emergencies.

Poison centre		
Country	Name	Telephone
Norway	Giftinformasjonen	22 59 13 00

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.10	aspiration hazard	1	Asp. Tox. 1	H304
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects  
Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word danger

- Pictograms

GHS05, GHS07, GHS08



- Hazard statements

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 Do NOT induce vomiting.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

(R)-p-mentha-1,8-diene, 2-aminoethanol, amidin, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-, Isotridecanol, ethoxylated

### 2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
(R)-p-mentha-1,8-diene	CAS No 5989-27-5  EC No 227-813-5  Index No 601-029-00-7	10 – < 25	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412		










# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
	REACH Reg. No 01-2119529223- 47-xxxx				
2-(2-butoxyethoxy)ethanol	CAS No 112-34-5  EC No 203-961-6  Index No 603-096-00-8  REACH Reg. No 01-2119475104- 44-xxxx	10 – < 25	Eye Irrit. 2 / H319		GHS-HC IOELV
Isotridecanol, ethoxylated	CAS No 69011-36-5  EC No 931-138-8 500-241-6  REACH Reg. No 01-2119976362- 32-xxxx	10 – < 25	Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		
Isotridecanol, ethoxylated (>=2.5 EO)	CAS No 69011-36-5  EC No 931-138-8	5 – < 10	Acute Tox. 4 / H302 Eye Dam. 1 / H318	 	
2-aminoethanol	CAS No 141-43-5  EC No 205-483-3  Index No 603-030-00-8  REACH Reg. No 01-2119486455- 28-XXXX	1 – < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Aquatic Chronic 3 / H412	 	IOELV
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	CAS No 68155-07-7  EC No 931-329-6  REACH Reg. No 01-2119490100- 53-xxxx	1 – < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 2 / H411	 	
alkyl dimethyl betaine	CAS No 66455-29-6  EC No 266-368-1 931-700-2  REACH Reg. No 01-2119529251-48 01-2119529251- 48-xxxx	1 – < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		


# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
diethanolamine	CAS No 111-42-2  EC No 203-868-0  Index No 603-071-00-1  REACH Reg. No 01-2119488930- 28-xxxx	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Repr. 2 / H361f STOT RE 2 / H373		

### Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Isotridecanol, ethoxylated	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	-	-	
Isotridecanol, ethoxylated (≥2.5 EO)	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	-	555.6 mg/kg	oral
2-aminoethanol	STOT SE 3; H335: C ≥ 5 %	-	1,089 mg/kg 2,504 mg/kg 11 mg/l/4h	oral dermal inhalation: vapour
alkyl dimethyl betaine	Skin Irrit. 2; H315: C ≥ 16 % Eye Dam. 1; H318: C ≥ 16 % Eye Irrit. 2; H319: 1 % ≤ C < 16 %	-	-	
diethanolamine	-	-	1,100 mg/kg	oral

### Remarks

For full text of H-phrases: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Self-protection of the first aider

Provision of sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Self-contained breathing apparatus (SCBA). SCBA with a chemical protection suit only where personal (close) contact is likely.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Provision of sufficient ventilation. Prevent skin contact. Avoid inhaling sprayed product. Collection and use of expertise.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect from sunlight.

Protect against external exposure, such as

frost

- Packaging compatibilities

Keep only in original container. Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

Cleaning agent. Industrial uses. Professional uses.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Source
EU	2-(2-butoxyethoxy)ethanol	112-34-5		IOEL V	10	67.5	15	101.2			2006/15/EC
EU	2-aminoethanol	141-43-5	H	IOEL V	1	2.5	3	7.6			2006/15/EC
NO	2,2'-iminodiethanol	111-42-2		GV	3	15					For-skrift, best.nr. 704
NO	2-(2-butoxyethoxy)ethanol	112-34-5		GV	10	68					For-skrift, best.nr. 704

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Source
NO	2-aminoethanol	141-43-5	H	GV	1	2.5					Forskrift, best.nr. 704
NO	propane-1,2-diol	57-55-6		GV	25	79					Forskrift, best.nr. 704
NO	D-limonene	5989-27-5		GV	25	140					Forskrift, best.nr. 704

#### Notation

##### Ceiling-C

ceiling value is a limit value above which exposure should not occur

##### H

absorbed through the skin

##### STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

##### TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	66.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	101.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Isotridecanol, ethoxylated	69011-36-5	DNEL	37 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Isotridecanol, ethoxylated	69011-36-5	DNEL	263 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DNEL	294 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DNEL	2,080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-aminoethanol	141-43-5	DNEL	3.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
2-aminoethanol	141-43-5	DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	DNEL	73.4 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	DNEL	4.16 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	DNEL	93.6 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
alkyl dimethyl betaine	66455-29-6	DNEL	0.822 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
alkyl dimethyl betaine	66455-29-6	DNEL	0.233 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
diethanolamine	111-42-2	DNEL	0.75 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
diethanolamine	111-42-2	DNEL	0.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
diethanolamine	111-42-2	DNEL	0.13 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	14 µg/l	aquatic organisms	freshwater	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.4 µg/l	aquatic organisms	marine water	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	3.85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.763 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	1.1 mg/l	aquatic organisms	freshwater	short-term (single instance)



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.11 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	4.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.32 mg/kg	terrestrial organisms	soil	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	4.36 µg/l	aquatic organisms	freshwater	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.436 µg/l	aquatic organisms	marine water	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	4.35 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.119 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.012 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.021 mg/kg	terrestrial organisms	soil	short-term (single instance)
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	PNEC	0.074 mg/l	aquatic organisms	freshwater	short-term (single instance)
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	PNEC	0.007 mg/l	aquatic organisms	marine water	short-term (single instance)
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	PNEC	0.015 mg/l	aquatic organisms	water	intermittent release
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	PNEC	1.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	PNEC	0.604 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	PNEC	0.06 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	PNEC	0.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0.085 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0.009 mg/l	aquatic organisms	marine water	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-aminoethanol	141-43-5	PNEC	0.434 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0.043 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0.037 mg/kg	terrestrial organisms	soil	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	830 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.195 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.019 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.035 mg/kg	terrestrial organisms	soil	short-term (single instance)
alkyl dimethyl betaine	66455-29-6	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
alkyl dimethyl betaine	66455-29-6	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
alkyl dimethyl betaine	66455-29-6	PNEC	2.7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
alkyl dimethyl betaine	66455-29-6	PNEC	0.028 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
alkyl dimethyl betaine	66455-29-6	PNEC	0.003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
alkyl dimethyl betaine	66455-29-6	PNEC	10 mg/kg	terrestrial organisms	soil	short-term (single instance)
diethanolamine	111-42-2	PNEC	0.021 mg/l	aquatic organisms	freshwater	short-term (single instance)
diethanolamine	111-42-2	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
diethanolamine	111-42-2	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
diethanolamine	111-42-2	PNEC	0.096 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
diethanolamine	111-42-2	PNEC	0.009 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
diethanolamine	111-42-2	PNEC	1.63 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection. Use safety goggle with side protection.

##### Skin protection

###### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

###### - Type of material

NBR: acrylonitrile-butadiene rubber

###### - Material thickness

> 0.35 mm

###### - Breakthrough times of the glove material

>480 minutes (permeation: level 6)

###### - Other protection measures

Protective clothing against liquid chemicals. Footwear protecting against chemicals. Preventive skin protection (barrier creams/ointments) is recommended. Take recovery periods for skin regeneration. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	light yellow - clear
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	>61 °C at 1 atm
Auto-ignition temperature	210 °C (auto-ignition temperature (liquids and gases))
pH (value)	11.4 (20 °C)
Kinematic viscosity	not determined
Solubility(ies)	not determined

#### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
---	-----------------------------------

Vapour pressure	2.339 kPa at 20 °C (calculated value, referring to a component of the mixture)
-----------------	--

#### Density and/or relative density

Density	0.978 g/cm <sup>3</sup>
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
--------------------------	-----------------------

#### 9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
--	--

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### Other safety characteristics

VOC content	28.95 %
-------------	---------

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	oral	555.6 mg/kg
2-aminoethanol	141-43-5	oral	1,089 mg/kg
2-aminoethanol	141-43-5	dermal	2,504 mg/kg
2-aminoethanol	141-43-5	inhalation: vapour	11 mg/l/4h
diethanolamine	111-42-2	oral	1,100 mg/kg

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
(R)-p-mentha-1,8-diene	5989-27-5	oral	LD50	>2,000 mg/kg	rat
2-(2-butoxyethoxy)ethanol	112-34-5	oral	LD50	2,410 mg/kg	mouse
2-(2-butoxyethoxy)ethanol	112-34-5	dermal	LD50	2,764 mg/kg	rabbit
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	oral	LD50	>2,000 mg/kg	rat
2-aminoethanol	141-43-5	oral	LD50	1,089 mg/kg	rat
2-aminoethanol	141-43-5	dermal	LD50	2,504 mg/kg	rabbit
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	oral	LD50	>2,000 mg/kg	rat
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	dermal	LD50	>2,000 mg/kg	rabbit
alkyl dimethyl betaine	66455-29-6	oral	LD50	2,640 mg/kg	mouse
alkyl dimethyl betaine	66455-29-6	dermal	LD50	>2,000 mg/kg	rat
diethanolamine	111-42-2	oral	LD50	1,100 mg/kg	rat

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

There is no additional information.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### SECTION 12: Ecological information

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	LC50	720 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	688 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	ErC50	0.32 mg/l	algae	72 h
2-(2-butoxyethoxy)ethanol	112-34-5	LC50	1,300 mg/l	fish	96 h
2-(2-butoxyethoxy)ethanol	112-34-5	EC50	>100 mg/l	aquatic invertebrates	48 h
2-(2-butoxyethoxy)ethanol	112-34-5	ErC50	>100 mg/l	algae	96 h
2-aminoethanol	141-43-5	LC50	349 mg/l	fish	96 h
2-aminoethanol	141-43-5	EC50	65 mg/l	aquatic invertebrates	48 h
2-aminoethanol	141-43-5	ErC50	2.8 mg/l	algae	72 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	LC50	2.4 mg/l	fish	96 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	EC50	3.2 mg/l	aquatic invertebrates	48 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	EbC50	2.2 mg/l	algae	72 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	ErC50	7.4 mg/l	algae	72 h
alkyl dimethyl betaine	66455-29-6	LC50	4.44 mg/l	fish	96 h
alkyl dimethyl betaine	66455-29-6	EC50	7.76 mg/l	aquatic invertebrates	48 h
alkyl dimethyl betaine	66455-29-6	ErC50	1.7 mg/l	algae	72 h
diethanolamine	111-42-2	LC50	460 mg/l	fish	96 h
diethanolamine	111-42-2	EC50	30.1 mg/l	aquatic invertebrates	48 h

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	EC50	<0.67 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LC50	0.41 mg/l	fish	8 d
2-aminoethanol	141-43-5	EC50	2.5 mg/l	aquatic invertebrates	21 d
alkyl dimethyl betaine	66455-29-6	EC50	31.6 mg/l	aquatic invertebrates	21 d

## 12.2 Persistence and degradability

### Degradability of components of the mixture

Name of substance	CAS No	EC No	Process	Degradation rate	Time	Method	Source
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	carbon dioxide generation	58.8 %	14 d		ECHA
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	oxygen depletion	80 %	28 d		ECHA
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	oxygen depletion	85 %	28 d		ECHA
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	931-138-8	DOC removal	82 %	28 d		ECHA
2-aminoethanol	141-43-5	205-483-3	DOC removal	>90 %	21 d		ECHA
alkyl dimethyl betaine	66455-29-6	266-368-1 931-700-2	carbon dioxide generation	63 - 79 %	28 d		ECHA
diethanolamine	111-42-2	203-868-0	oxygen depletion	5 %	5 d		ECHA

## 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
(R)-p-mentha-1,8-diene	5989-27-5		4.38 (pH value: 7.2, 37 °C)	
2-(2-butoxyethoxy)ethanol	112-34-5		1 (pH value: 7, 20 °C)	
Isotridecanol, ethoxylated	69011-36-5	12.7		
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	232.5		
2-aminoethanol	141-43-5	2.3	-2.3 (25 °C)	



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
amiden, C8-18- en C18-onverzagde, N,N-bis(hydroxyethyl)-	68155-07-7	65.36	1.35 – ≤4.84 (pH value: ~5.5, 20 °C)	
alkyl dimethyl betaine	66455-29-6		-0.4 (pH value: 6.86, 20 °C)	
diethanolamine	111-42-2	2.69	-2.46 (25 °C)	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0,1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID	UN 2491
IMDG-Code	UN 2491
ICAO-TI	UN 2491

### 14.2 UN proper shipping name

ADR/RID	ETHANOLAMINE SOLUTION
IMDG-Code	ETHANOLAMINE SOLUTION
ICAO-TI	Ethanolamine solution

### 14.3 Transport hazard class(es)

ADR/RID	8
IMDG-Code	8
ICAO-TI	8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### 14.4 Packing group

ADR/RID	III
IMDG-Code	III
ICAO-TI	III

### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

##### **Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information**

Classification code	C7
Danger label(s)	8



Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	E
Hazard identification No	80

##### **Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information**

Classification code	C7
Danger label(s)	8



Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	80

##### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant	-
Danger label(s)	8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024



Special provisions (SP)	223
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-B
Stowage category	A
Segregation group	18 - Alkalis

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s)	8
-----------------	---



Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	1 L

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

None of the ingredients are listed.

#### Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Zewo Industrivask Citrus ZI-3	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
2-aminoethanol	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
2-aminoethanol	substances in tattoo inks and permanent make-up		R75	75
alkyl dimethyl betaine	substances in tattoo inks and permanent make-up		R75	75
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	substances in tattoo inks and permanent make-up		R75	75

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
diethanolamine	substances in tattoo inks and permanent make-up		R75	75
Isotridecanol, ethoxylated (>=2.5 EO)	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Isotridecanol, ethoxylated (>=2.5 EO)	substances in tattoo inks and permanent make-up		R75	75
(R)-p-mentha-1,8-diene	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
(R)-p-mentha-1,8-diene	flammable / pyrophoric		R40	40
(R)-p-mentha-1,8-diene	substances in tattoo inks and permanent make-up		R75	75
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	R55	55
2-(2-butoxyethoxy)ethanol	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
2-(2-butoxyethoxy)ethanol	substances in tattoo inks and permanent make-up		R75	75
Isotridecanol, ethoxylated	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Isotridecanol, ethoxylated	substances in tattoo inks and permanent make-up		R75	75

### Legend

R3

- Shall not be used in:
  - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
  - can be used as fuel in decorative oil lamps for supply to the general public, and
  - present an aspiration hazard and are labelled with H304.
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  - lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
  - grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
  - lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### Legend

- R40
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
    - metallic glitter intended mainly for decoration,
    - artificial snow and frost,
    - 'whoopie' cushions,
    - silly string aerosols,
    - imitation excrement,
    - horns for parties,
    - decorative flakes and foams,
    - artificial cobwebs,
    - stink bombs.
  2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  
'For professional users only'.
  3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
  4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
- R55
1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.
  2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.
  3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:  
'Do not use in paint spraying equipment'.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### Legend

R75

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;

(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:

(i) 0,1 % by weight, if the substance is used solely as a pH regulator;

(ii) 0,01 % by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;

(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:

(i) "Rinse-off products";

(ii) "Not to be used in products applied on mucous membranes";

(iii) "Not to be used in eye products";

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;

(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.

3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:

(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);

(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.

6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.

7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:

(a) the statement "Mixture for use in tattoos or permanent make-up";

(b) a reference number to uniquely identify the batch;

(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;

(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;

(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;

(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

### Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

### Deco-Paint Directive

VOC content	34.03 %
-------------	---------

### Industrial Emissions Directive (IED)

VOC content	28.95 %
-------------	---------

### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
diethanolamine		a)	

### Legend

a) Indicative list of the main pollutants

### Regulation 648/2004/EC on detergents

Labelling of contents	
Constituents	Weight % content (or range)
non-ionic surfactants	15 % or over but less than 30 %
amphoteric surfactants	less than 5 %
perfumes (D-LIMONENE)	

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### National inventories

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	not all ingredients are listed

### Legend

REACH Reg. REACH registered substances  
TSCA Toxic Substance Control Act

### Norwegian product register

Declaration number 325754

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Abbr.	Descriptions of used abbreviations
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
Forskrift, best.nr. 704	Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
GV	Workplace exposure limit
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SCBA	Self-contained breathing apparatus
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Zewo Industrivask Citrus ZI-3

Version number: GHS 1.0

Date of compilation: 07.06.2024

Abbr.	Descriptions of used abbreviations
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.