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

1.1 Product identifier

Trade name : thermodent® alka clean Unique Formula Identifier : 3V90-D067-X00R-WTUH

(UFI)

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

Use of the Sub- : Cleaning agent

stance/Mixture

Recommended restrictions

on use

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Producer : Schülke & Mayr GmbH

Robert-Koch-Str. 2

22851 Norderstedt

Germany

Telephone: +49 (0)40/ 52100-0 Telefax: +49 (0)40/ 52100318

mail@schuelke.com www.schuelke.com

Supplier : Schülke & Mayr UK Ltd.

Cygnet House 1, Jenkin Road

Sheffield S9 1AT United Kingdom

Telephone: +44 114 254 35 00 Telefax: +44 114 254 35 01 mail.uk@schulke.com

E-mail address of person responsible for the SDS/Contact person

: Application Specialists +49 (0)40/ 521 00 666 AD@schuelke.com

1.4 Emergency telephone number

Emergency telephone num-

ber

Carechem 24 International:+44 1235 239670

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

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage. Eye irritation, Category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :

Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P280 Wear protective gloves/ eye protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and

water.

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.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

#### **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		



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	Registration number		
trisodium nitrilotriacetate	5064-31-3 225-768-6 607-620-00-6 01-2119519239-36- XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Carc. 2; H351 ————————————————————————————————————	>= 1 - < 5
sodium p-cumenesulphonate	15763-76-5 239-854-6  01-2119489411-37- XXXX	Eye Irrit. 2; H319	>= 1 - < 10
potassium hydroxide	1310-58-3 215-181-3 019-002-00-8 01-2119487136-33- XXXX	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 1 - < 2
		specific concentration limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0.5 - < 2 % Eye Irrit. 2; H319 0.5 - < 2 %	
sodium etasulfate	126-92-1 204-812-8  01-2119971586-23- XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318 ————————————————————————————————————	>= 1 - < 3
Substances with a workplace exposure	 e limit :		
glycerol	56-81-5 200-289-5 		>= 1 - < 10

For explanation of abbreviations see section 16.

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### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled If symptoms persist, call a physician.

In case of skin contact Wash off immediately with soap and plenty of water.

If symptoms persist, call a physician.

In the case of contact with eyes, rinse immediately with plenty In case of eye contact

of water and seek medical advice.

If swallowed Rinse mouth with water.

> Give small amounts of water to drink. Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** Treat symptomatically.

Risks Causes skin irritation.

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment For specialist advice physicians should contact the Poisons

Information Service.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Dry powder

> Carbon dioxide (CO2) Water spray jet

Foam

Unsuitable extinguishing

media

Do NOT use water jet.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

No information available.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

### 5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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#### **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

#### 6.4 Reference to other sections

see Section 8 + 13

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling :

Advice on protection against :

fire and explosion

Never mix concentrates directly.

No special protective measures against fire required.

Hygiene measures : Keep away from food and drink.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Store at room temperature in the original container.

Further information on stor-

age conditions

Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Recommended storage temperature:

-5 - 25°C

Advice on common storage : Do not store together with explosive, infectious and radioactive

products.

7.3 Specific end use(s)

Specific use(s) : none

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
glycerol	56-81-5	TWA (Mist)	10 mg/m3	GB EH40
potassium hydrox-	1310-58-3	STEL	2 mg/m3	GB EH40



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## **Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health effects	Value
trisodium nitrilotri- acetate	Workers	Inhalation	Short-term exposure, Systemic effects, Local effects	5.25 mg/m3
	Workers	Inhalation	Long-term exposure, Systemic effects, Local effects	3.5 mg/m3
Silicic acid, potassium salt	Workers	Skin contact	Long-term systemic effects	1.49 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	5.61 mg/m3
sodium p- cumenesulphonate	Workers	Skin contact	Long-term systemic effects	191 mg/kg
	Workers	Skin contact	Long-term local ef- fects	0.096 mg/cm2
	Workers	Inhalation	Long-term systemic effects	37.4 mg/m3
potassium hydroxide	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
sodium etasulfate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic effects	285 mg/m3

## **Predicted No Effect Concentration (PNEC):**

Substance name	Environmental Compartment	Value
trisodium nitrilotriacetate	Fresh water	0.93 mg/l
	Marine water	0.093 mg/l
	Fresh water sediment	3.64 mg/kg
	Marine sediment	0.364 mg/kg
	Sewage treatment plant	540 mg/l
	Intermittent use/release	0.915 mg/l
	Soil	0.182 mg/kg
Silicic acid, potassium salt	Fresh water	7.5 mg/l
	Marine water	1 mg/l
	Sewage treatment plant	348 mg/l
	Intermittent use/release	7.5 mg/l
sodium p-cumenesulphonate	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.372 mg/kg
	Marine sediment	0.0372 mg/kg
	Soil	0.016 mg/kg
sodium etasulfate	Fresh water	0.136 mg/l
	Marine water	0.0136 mg/l
	Fresh water sediment	1.5 mg/kg
	Marine sediment	0.15 mg/kg
	Soil	0.22 mg/kg

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Effects on waste water treatment plants 1.35 mg/l

### 8.2 Exposure controls

## Personal protective equipment

Eye/face protection

Hand protection

Safety glasses with side-shields conforming to EN166

Directive : The selected protective gloves have to satisfy the specifica-

tions of Regulation (EU) 2016/425 and the standard EN 374

derived from it.

Remarks : Splash protection: disposable nitrile rubber gloves e.g.

Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protec-

tion.

Skin and body protection

Work uniform or laboratory coat.

Respiratory protection

No personal respiratory protective equipment normally re-

quired.

Protective measures : Avoid contact with skin and eyes.

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

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : nearly colourless
Odour : characteristic
Odour Threshold : not determined

pH : 12 - 12.8 (20 °C)

Concentration: 100 %

Melting point/freezing point : < -5 °C

Decomposition temperature Not applicable

Boiling point/boiling range

ca. 100 °C > 70 °C

Flash point

Method: DIN 51755 Part 1

Evaporation rate : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available



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Relative vapour density : No data available

Density : ca. 1.08 g/cm3 (20 °C, 1,013 hPa)

Solubility(ies)

Water solubility : completely soluble (20 °C)

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : No data available

Viscosity

Viscosity, dynamic : ca. 3 mPa\*s

Method: ISO 3219

Viscosity, kinematic : not determined

Explosive properties : Not applicable

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Flammability (liquids) : Not applicable

Metal corrosion rate : None reasonably foreseeable.

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

The product is chemically stable.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Incompatible with acids.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Possible incompatibility with alkali sensitive materials.

## 10.6 Hazardous decomposition products

None reasonably foreseeable.

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## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

### **Acute toxicity**

Not classified based on available information.

**Product:** 

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

Method: Calculation method

**Components:** 

trisodium nitrilotriacetate:

Acute oral toxicity : LD50 (Rat, female): 1,300 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): > 10,000 mg/kg

sodium p-cumenesulphonate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

potassium hydroxide:

Acute oral toxicity : LD50 (Rat): 365 mg/kg

Method: OECD Test Guideline 425 Assessment: Harmful if swallowed.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

sodium etasulfate:

Acute oral toxicity : LD50 (Rat): 2,840 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

glycerol:

Acute oral toxicity : LD50 (Rat, female): 27,200 mg/kg



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Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male): > 5.85 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 412

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

Skin corrosion/irritation

Causes skin irritation.

**Components:** 

trisodium nitrilotriacetate:

Species : Rabbit
Method : Draize Test
Result : No skin irritation

sodium p-cumenesulphonate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : slight irritation

Remarks : Based on available data, the classification criteria are not met.

potassium hydroxide:

Species : reconstructed human epidermis (RhE)

Method : OECD Test Guideline 431

Result : Corrosive after 3 minutes or less of exposure

sodium etasulfate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

**Components:** 

trisodium nitrilotriacetate:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Eye irritation

sodium p-cumenesulphonate:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Eye irritation

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potassium hydroxide:

Species Rabbit

Method **OECD Test Guideline 405** Result : Irreversible effects on the eye

sodium etasulfate:

Species Rabbit

: OECD Test Guideline 405 Method Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

**Components:** 

trisodium nitrilotriacetate:

Test Type **Buehler Test** Species Guinea pig

Method OECD Test Guideline 406

Result Did not cause sensitisation on laboratory animals.

sodium p-cumenesulphonate:

Test Type **Buehler Test** Species Guinea pig

Method **OECD Test Guideline 406** 

Result Did not cause sensitisation on laboratory animals.

potassium hydroxide:

Species Guinea pig

Result Did not cause sensitisation on laboratory animals.

sodium etasulfate:

Method : OECD Test Guideline 429

Result Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

trisodium nitrilotriacetate:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity- As- : Animal testing did not show any mutagenic effects.

sessment

sodium p-cumenesulphonate:



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Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse

mutation assay)

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Application Route: Oral Result: Non mutagenic

Germ cell mutagenicity- As-

sessment

: Not mutagenic in Ames Test

potassium hydroxide:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Germ cell mutagenicity- As-

sessment

: Animal testing did not show any mutagenic effects.

sodium etasulfate:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Bacteria

Method: OECD Test Guideline 471

Result: negative

### Carcinogenicity

Not classified based on available information.

## **Components:**

#### trisodium nitrilotriacetate:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

NOAEL : 9.2 mg/kg body weight

Result : Limited evidence of carcinogenicity in animal studies (oral)

Carcinogenicity - Assess-

ment

Suspected of causing cancer.

### sodium p-cumenesulphonate:

Species : Rat Exposure time : 2 Years

Method : OECD Test Guideline 453
Result : no increase in tumors observed

Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

potassium hydroxide:

Carcinogenicity - Assess- : No data available

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ment

sodium etasulfate:

Species : Rat
Application Route : Oral
Exposure time : 2 Years

Dose : > 1125 mg/kg body weight

Reproductive toxicity

Not classified based on available information.

**Components:** 

trisodium nitrilotriacetate:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent: LOAEL: 450 mg/kg body weight Result: No effects on fertility and early embryonic develop-

ment were detected.

Effects on foetal develop-

ment

Species: Rabbit, female Application Route: Oral

Duration of Single Treatment: 9 d

Teratogenicity: NOAEL: 250 mg/kg body weight

Result: No effects on fertility and early embryonic develop-

ment were detected.

sodium p-cumenesulphonate:

Effects on fertility : Species: Rat

Application Route: Oral

General Toxicity - Parent: NOAEL: 300 mg/kg bw/day General Toxicity F1: NOAEL: 1,000 mg/kg bw/day

Method: OECD Test Guideline 421

Effects on foetal develop-

ment

Species: Rat

Application Route: Oral

General Toxicity Maternal: NOAEL: 936 mg/kg body weight

Teratogenicity: NOAEL: 936 mg/kg bw/day

Reproductive toxicity - As-

sessment

study scientifically unjustified

potassium hydroxide:

Reproductive toxicity - As-

sessment

No data available

sodium etasulfate:

Effects on foetal develop-

ment

Species: Rat

Application Route: Oral

Dose: 250 milligram per kilogram

Result: negative

Remarks: Did not show teratogenic effects in animal experi-

ments.



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Reproductive toxicity - As-

No data available

sessment

STOT - single exposure

Not classified based on available information.

**Components:** 

trisodium nitrilotriacetate:

Remarks : Based on available data, the classification criteria are not met.

sodium p-cumenesulphonate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

potassium hydroxide:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

sodium etasulfate:

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

**Components:** 

trisodium nitrilotriacetate:

Exposure routes : Ingestion Target Organs : Kidney

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

sodium p-cumenesulphonate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

potassium hydroxide:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

sodium etasulfate:

Remarks : No data available

Repeated dose toxicity

**Components:** 

trisodium nitrilotriacetate:

Species : Rat, male and female

Z11473 ZSDB\_P\_GB EN

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NOAEL : 0.21 mg/l

Application Route : inhalation (dust/mist/fume)

Test atmosphere : dust/mist
Exposure time : 28-day 6 h
Number of exposures : 5 Tage/ Woche

Species : Rabbit, male and female

NOAEL : 50 mg/kg
Application Route : Skin contact
Exposure time : 90-day

Species : Rat, male and female

NOAEL : 92 mg/kg Application Route : Oral

### sodium p-cumenesulphonate:

Species : Rat NOAEL : 763 mg/kg Application Route : Oral

Target Organs : Cardio-vascular system Remarks : Subchronic toxicity

Species : Rat

NOAEL : 60 mg/kg

Application Route : Dermal

Exposure time : 2 yr

Method : OECD Test Guideline 453

Target Organs : Skin

#### sodium etasulfate:

Species : Rabbit

NOAEL : 488 mg/kg

Application Route : Oral

Exposure time : 90-day

Species : Mouse
NOAEL : 400 mg/kg
Application Route : Skin contact
Exposure time : 90-day

## **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

#### **Product:**

Remarks : No data is available on the product itself.

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

#### 12.1 Toxicity

## Components:

trisodium nitrilotriacetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Gammarus salinus (seawater shrimp)): 98 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 91.5 mg/l

Exposure time: 72 h Test Type: static test

NOEC (Desmodesmus subspicatus (green algae)): 1.43 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

LC50: 90.5 mg/l

Exposure time: 27 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 9.3 mg/l

Exposure time: 21 Weeks Species: Gammarus fasciatus (freshwater shrimp)

sodium p-cumenesulphonate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

Exposure time. 40 m

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h

potassium hydroxide:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other:

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic

plants

Remarks: No data available

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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sodium etasulfate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 483 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC: >= 1,357 mg/lExposure time: 42 d

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other: aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1.4 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

glycerol:

Toxicity to fish LC50 (Oncorhynchus mykiss): 54,000 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

12.2 Persistence and degradability

**Product:** 

Biodegradability Result: Readily biodegradable.

Method: OECD 301D / EEC 84/449 C6

Components:

trisodium nitrilotriacetate:

Biodegradability Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

sodium p-cumenesulphonate:

Test Type: aerobic Biodegradability

> Result: Readily biodegradable. Biodegradation: > 60 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

potassium hydroxide:

Biodegradability Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

sodium etasulfate:



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Biodegradability : Result: Readily biodegradable.

Biodegradation: 89 % Exposure time: 28 d

Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

trisodium nitrilotriacetate:

Bioaccumulation : Species: Brachidanio rerio

Exposure time: 96 d

Bioconcentration factor (BCF): < 3

Remarks: No bioaccumulation is to be expected (log Pow <=

4).

Does not significantly accumulate in organisms.

Partition coefficient: n-

octanol/water

log Pow: -13.2

sodium p-cumenesulphonate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

potassium hydroxide:

Bioaccumulation : Remarks: Does not bioaccumulate.

sodium etasulfate:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

log Pow: -0.248

glycerol:

Partition coefficient: n-

octanol/water

log Pow: -1.75 (25 °C)

Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

trisodium nitrilotriacetate:

Mobility : Remarks: Substance does not evaporate from water surface

into the atmosphere., Not expected to adsorb on soil.

sodium p-cumenesulphonate:

Mobility : Remarks: Not expected to adsorb on soil.

potassium hydroxide:

Mobility : Remarks: Mobile in soils

sodium etasulfate:

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Mobility : Remarks: 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 persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### 12.6 Other adverse effects

**Product:** 

Endocrine disrupting poten-

tial

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.

Additional ecological infor-

mation

No data is available on the product itself.

### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special

disposal required according to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

### **SECTION 14: Transport information**

14.1 UN number

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

Z11473 ZSDB\_P\_GB EN

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14.4 Packing group

**ADR** Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good IATA (Cargo) Not regulated as a dangerous good IATA (Passenger) Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

Not applicable

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Regulation (EC) on substances that deplete the ozone Not applicable

layer

UK REACH List of substances subject to authorisation Not applicable

(Annex XIV)

Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

> emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0.51 %

according to Detergents

Regulation EC 648/2004

< 5%: Anionic surfactants, Non-ionic surfactants, NTA (nitrilot-

riacetic acid) and salts thereof, Polycarboxylates

Other constituents: Enzymes

The components of this product are reported in the following inventories:

**TCSI** Not in compliance with the inventory

**TSCA** Product contains substance(s) not listed on TSCA inventory.

AIIC Not in compliance with the inventory

DSL This product contains the following components that are not

on the Canadian DSL nor NDSL.



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sodium p-cumenesulphonate

Sodium polyacrylate

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

#### 15.2 Chemical safety assessment

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

#### **SECTION 16: Other information**

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

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation. H351 : Suspected of causing cancer.

## Full text of other abbreviations

Acute Tox. : Acute toxicity
Carc. : Carcinogenicity
Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Met Corr : Corresive to

Met. Corr.: Corrosive to metalsSkin Corr.: Skin corrosionSkin Irrit.: Skin irritation

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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 La-



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boratory 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

### Classification of the mixture: Classification procedure:

Skin Irrit. 2 H315 Calculation method
Eye Dam. 1 H318 Calculation method
Eye Irrit. 2 H319 Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.