

Safety Data Sheet

According to REGULATION 1907/2006/ EC
Version 2
Date of publishing 17/07/2018

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **ZEO FRESH**

1.2 Use of the substance / mixture

Use of the substance/mixture: Laundry machine liquid

1.3 Details of the supplier of the safety data sheet

ZEO TEC HELLAS GROUP IKE
SPARTIA AREA, SESKLO VOLOS
Tel. 2421095212
FAX: 2421095212
Postcode: 38500
E-MAIL : zthellasgroup@gmail.com

1.4 Emergency telephone number
+30 210 -7793777 (Emergency telephone number)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Serious damage/Eye irritation(Categorie 1A),H318 (Causes serious eye damage)
Serious damage/Skin irritation(Categorie 2),H315 (Causes serious skin damage)

Classification according to Regulation (EC) No 1272/2008

2.2 Label elements

Pictogram



Signal word: Hazard

Hazard statements(recognized) H

H318: Causes serious eye damage

H315: Causes skin irritation

Precautionary Statement(s)

P102: Away from children. .

P280: Wear protective gloves, protective clothes, means of personal protection for the eyes/face.

P301 + P310: IF SWALLOWED: Call immediately POISON CENTER or a doctor.

P305 + P351 + P338: IN CASE OF EYE CONTACT: Rinse thoroughly with water for several minutes. If there are contact lenses, remove them, if it is possible. Keep rinsing.

P337 + P313: If eye irritation does not subsist : Consult/visit a doctor

P302 + P352 IF ON SKIN: Wash with plenty of water/...

2.3 Additional Hazard Statements

Other hazards

No other known hazards.

The product does not meet the criteria as PBT or vPvB in accordance with the requirements of Regulation No. 1907/2006 (EC), Annex XIII.

Section 3: Composition/information on ingredients

3.1 Composition of the product

Hazardous ingredients

Cas No	Component	REACH No	Classification according to 1272/2008/EK	Content
68891-38-3	Sodium laureth sulfate ether	01-2119488639-16	Skin Irrit. 2, H315 Eye Dam. 1, H318	0% - 5%

			Aquatic Chronic 3, H412	
	SODIUM BENZENESULFONATE	01-2119565112-48	H 412,H315,H 318	5% - 15%
51981-21-6	Glutamic acid,N,M-diacetic, tetra sodium salt	01-2119493601-38	Corrosive metals, 1, H290	0% - 5%
ΠΟΛΥΜΕΡΕ Σ	Styrene / Acrylates Copolymer		Eye Dam. 2,H319	0% - 5%

4. FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: In case of fainting it is necessary to lie down and transfer to a firm lateral position.

After contact with skin In case of contact with the skin, wash immediately with plenty of soap and water.

After eye contact Rinse immediately with plenty of water and eyelids open.

After swallowing Rinse mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media.

5.2 Extinguishing powder, foam, sand, Water spray

5.2 Special hazards arising from the substance or mixture

In a fire, it is possible to release: nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂)

5.3 Advice for firefighters

Do not attempt to fight the fire without proper protective equipment:

Independent breathing appliances. Remove all people from the incident.

Special protective equipment:

Wear protective fire-fighting clothing (garments, helmets, footwear, gloves) in accordance with the European Standard EN 469.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

The product in contact with water forms slippery layers.

There is a great risk of slipping due to product spillage. Wear your personal protective clothing.

6.2 Environmental precautions:

Prevent its surface expansion.

Do not empty into drains or the aquatic environment.

In case of diverting into the aquatic environment or in the sewage system, notify the competent authorities.

6.3 Methods and materials for containment and cleaning up:

Stop leakage.

Dispose contaminated materials in accordance with current regulations.

6.4 Reference to other sections

For safe handling see 7.

For personal protective equipment see 8.

Information on storage see 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep the container tightly closed.

Advice on how to protect against fire and explosion:

No special measures are required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

It is stored at temperatures below 35 ° C.

Compatible packaging materials: Stainless steel, plastic.

Advice on storage: Keep separate from oxidising substances.

Further statements on storage conditions:

none

7.3 Specific end use or uses

Not available.

Additional notes for the design of technical installations:

No other recommendation, see chapter 7.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with limit values related to workplaces and to be monitored:

Concerning the ingredient Sodium laureth sulfate ether

DNELs

Derived No Effect Level (DNEL) for worker exposure:

Long-term systemic effects by repeated skin contact, DNEL: 2.750 mg / kg bw / day

Long-term systemic effects by repeated inhalation, DNEL: 175 mg / m³

Derived No Effect Level (DNEL) for Consumer Reporting:

Long-term systemic effects by repeated skin contact, DNEL: 1,650 mg / kg bw / day

Long-term systemic effects by repeated inhalation, DNEL: 52 mg / m³

Long-term systemic effects by repeated swallowing DNEL: 15 mg / kgr

PNECs

Predicted No Effect Concentration:

PNEC freshwater: 0.24 mg / lt

Seawater PNEC: 0.024 mg / lt

PNEC intermittent releases: 0.071 mg / l

PNEC freshwater sediment: 5.45 mg / kgr

PNEC seawater sediment: 0.545 mg / kgr

PNEC soil: 0.946 mg / kgr

PNEC wastewater treatment plants: 10 g / lt

It concerns the SODIUM BENZENESULFONATE component

DNEL Employees

Dermal, Long-term
systemic effects

170 mg / kg refers to body weight and day.

Oral,

Long-term exposure
systemic effects

12 mg / m³

DNEL Consumers

Dermal, Long-term
exposure - systemic effects
Oral, Long-term exposure –

85 mg / kg refers to body weight and day.

systemic effects 3 mg / m³
 Inhalation, Long-term exposure –
 systemic effects 0.85 mg / kg refers to body weight and day.

Environmental exposure - PNEC

Environmental Department	Price	Note
Sweet water	0.268 mg / l	
Sea water	0,0268 mg / l	
temporary release of	0.055 mg / l	
Sewage treatment	5.6 mg / l	
Fresh water sediment	8.1 mg / kg	refers to the dry substance
Marine sediment	8.1 mg / kg	refers to the dry matter
Soil	35 mg / kg	refers to the dry matter
Food		Not relevant / not usable

8.2 Exposure controls

Personal protective equipment:

General protection and hygiene measures:

When using it, do not eat, drink, smoke. Keep away from food, drink and animal feed.

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

Respiratory protection:

It is not necessary

Hand protection:

Protective gloves. The glove material should be impermeable and resistant to the product.

Due to non-testing, no glove material can be proposed for the product.

Select the glove material taking into account transit times, permeability and degradation.

Glove material

Nitrile Rubber.

The choice of the suitable glove depends not only on the material, but also on the additional quality characteristics, which differ according to manufacturer EN 374

Penetration time of glove material

For mixtures of the chemicals listed below the migration time should be at least 480 minutes (Permeability according to EN 374). The exact passage time is given by the manufacturer of the protective gloves and should always be observed.

Eye protection:

Protective glasses fully fit.

Body protection:

Protective working clothes. Use protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information

Form: viscous liquid

Color: various

Odor: characteristic of the fragrance

Odor threshold: -

pH at 20 ° C: 8.5 ± 0.5

Melting point / Melting range: Not available

Boiling point / boiling range: No data available

Flash point: The material does not ignite

Decomposition temperature: Not applicable.

Self ignition risk: None.

Risk of explosion: There is no risk of explosion of the product.

Explosion hazard limits:

inferior: None.

higher: None.

Vapor pressure: Not applicable

Density at 20 ° C: 1.03 g / cm^3

Relative density Not specified.

Vapor density Not applicable

Vaporization rate Not applicable

Solubility in water at 20 ° C: complete

Distribution coefficient (n-Octanol / H₂O) at 23 ° C -

Viscous property:

Dynamic: Not applicable

kinematic: Not applicable

9.2 Other Information

No other relevant information is available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available on the potency of the product or its components.

10.2 Chemical stability

Thermal decomposition / Conditions to avoid:

It does not decompose if used properly.

10.3 Possibility of hazardous reactions

No dangerous reaction known.

10.4 Conditions to be avoided

No other relevant information is available.

10.5 Incompatible materials:

No other relevant information is available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Concerning the ingredient Sodium laureth sulfate ether

Direct Danger Toxicity:

Significant ranking values -LD/LC50		
By mouth	LD50	> 2000 mg/kg (rat) (OECD Guideline 401)
By skin	LD50	> 2000 mg/kg (rat)

Initial irritation:

Skin: Irritating to skin and mucous membranes.

Eye: Intense irritation and serious eye damage.

Sensitization:

No sensitization is known

Subacute to chronic toxicity status:

Available toxicity studies provide a consistent picture of subacute and chronic oral toxicity. For the whole category of alcohol ethoxysulfates (AESs), the following is established: NOAEL 300 mg / kg bw.

Toxicokinetics, metabolism and distribution

It is not classified.

Acute effects (acute toxicity, irritation and corrosivity)

Acute toxicity (oral):

The substance is not classified.

Irritation and corrosivity (skin, eyes):

The substance is irritating to the skin and particularly irritating to the eyes.

Sensitization

It is not sensitizing.

Repeated dose toxicity

It is not classified.

NOAEL: 300 mg / kg bw / day

CMR effects (carcinogenicity, mutagenicity and reproduction toxicity) Carcinogenicity:

It is not classified. Systemic toxicity is predicted to be too low. There is no need for further assessment.

Mutagenicity:

Not classified Reproductive toxicity:

The reproductive toxicity study showed NOAEL for a reprotoxicity greater than 300 mg / kg / day.

The developmental toxicity study showed NOAEL = 1000 mg / kg / day.

It concerns the SODIUM BENZENESULFONATE component

Acute oral toxicity

LD50 rat: 2,000 - 5,000 mg / kg; OECD Test Guideline 401

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

Acute inhalation toxicity

Analysis is not necessary.

For different exposure modes, there is a lot of data available

Acute dermal toxicity

LD50 rat:> 2,000 mg / kg; OECD Test Guideline 402

This is deduced from the assessment or the result of controls on similar products (similar conclusion) (bibliographic significance)

Test substance: Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts Based on the available data, the classification criteria are not met.

Genital cell mutagenicity

No data available

Carcinogenicity

IARC: No ingredient of the product present in a concentration equal to or greater than 0.1% is not found by the IARC as a possible, potential or proven carcinogenic product for humans.

Reproductive toxicity
No data available

Specific Target Organ Toxicity - One-off exposure
No data available

Specific Target Organ Toxicity - Repeated exposure
No data available

Suction toxicity
No data available

It concerns the ingredient Glutamic acid,N,M-diacetic, tetra sodium salt ,38%

Acute toxicity:	Not classified according to available information.
Skin corrosion and irritation:	Not classified according to available information.
Serious eye damage / eye irritation:	Not classified according to available information.
Respiratory sensitization:	Not classified according to available information.
Skin sensitization:	Not classified according to available information.
Germ cell mutagenicity :	Not classified according to available information.
Carcinogenicity:	Not classified according to available information.
Reproductive toxicity:	Not classified according to available information.
STOT-single exposure:	Not classified according to available information.
STOT-repeated exposure:	Not classified according to available information.
Aspiration hazard:	Not classified according to available information.

Experimental result

Acute oral toxicity: LD50:> 5 000 mg / kg Species: Rat
Method: Method of calculation

Skin corrosion and irritation: Result: No skin irritation
The information provided is based on tests in the mixture itself.

Serious eye damage / irritation: Result: No eye irritation
The information provided is based on tests in the mixture itself

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Concerning the ingredient Sodium laureth sulfate ether

aqueous toxicity:	
EC10 statically	>10000 mg/l (Pseudomonas putida)
LC50	7,1 mg/l (Brachydanio rerio)
	27,7 mg/l (Desmodesmus subspicatus)
	7,4 mg/l (freshwater fish)
	1,05 mg/l (Pimephales promelas)

It concerns the SODIUM BENZENESULFONATE component

Toxicity to fish - Chronic toxicity

NOEC (72 d) *Oncorhynchus mykiss*:> 0,1 - 1 mg / l; flow test (bibliographic significance)

Toxicity to daphnia and other aquatic molluscs

EC50 (48 h) *Daphnia magna*:> 1-10 mg / l; static test? OECD TG 202

Toxicity to daphnia and other aquatic molluscs - Chronic toxicity

NOEC (21 d) *Daphnia magna*:> 1 - 10 mg / l; playback rate? flow test? OECD TG 211

Toxicity to aquatic plants

EC50 (72 h) *Scenedesmus subspicatus*:> 10-100 mg / l; static test? OECD TG 201; (bibliographic significance)

Toxicity to bacteria

EC50 (17 h) *Pseudomonas putida* (*Pseudomonas putida*): 63 mg / l; Cell proliferation inhibition test? ISO 10712

Toxicity to soil organisms

the study is scientifically unjustified

Reason: Direct and indirect soil exposure is unlikely.

Toxicity to terrestrial plants

Analysis is not necessary.

Reason: Direct and indirect soil exposure is unlikely.

Toxicity to other land non-mammals

Analysis is not necessary.

Reason: Accumulation in terrestrial organisms is unlikely.

Direct and indirect soil exposure is unlikely.

12.2 Persistence and degradability

easy biodegradation

Biodegradable according to the Detergents Regulation, 648/2004 / EC.

The surfactants contained in this product comply with the biodegradability criteria as defined in Regulation 648/2004 / EC. The data supporting this declaration shall be made available to the competent authorities of the Member States and shall be provided at their request by the manufacturer.

12.3 Possibility of bioaccumulation

No bioaccumulation potential.

Bioaccumulation in aquatic organisms is not expected as the substance has a low log $K_{ow} \leq 3$.

Given the rapid degradation of the substance in the environment and the low bioaccumulation potential found in aquatic species, bioaccumulation in terrestrial species is considered negligible.

12.4 Mobility on the ground

The substance is easily dissolved in water and is easily biodegradable.

Further ecological indications:

General advice: No known hazard to the aquatic environment.

2.5 Results of the PBT and vPvB assessment

PBT: Not classified.

vPvB: Not classified.

12.6 Other adverse effects

Not available.

It concerns the ingredient Glutamic acid,N,M-diacetic, tetra sodium salt ,38%

2.1 Toxicity

Experimental result

Toxicity to fish: LC50:> 100 mg / l Exposure time: 96 h

Species: Oncorhynchus mykiss (Iridescent trout)

Method: OECD Test Guideline 203

12.2 Persistence and degradability

Product Information:

Biodegradability: Result: Biodegradable easily.

12.3 Possibility of bioaccumulation

Product Information:

Bioaccumulation: Bioaccumulation is unlikely.

12.4 Mobility on the ground

Product Information:

Mobility: Absorption of solid soil molecules is not expected

12.5 Results of the PBT and vPvB assessment

Product Information:

Assessment of PBT and vPvB: The substance / mixture does not contain ingredients that are considered to be either PBT or highly toxic and highly bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product Information:

Required biochemical: No data available
oxygen (BOD)

13.DISPOSAL CONSIDERATIONS

3.1 Waste management methods

Discard according to local and national regulations

Unpacked packages (packages)

Only empty containers must be disposed of as recyclable materials.

ANNEX

1) Disposal / Product

2) Disposal / Uncleaned packaging

20 01 30 detergents other than those mentioned in 20 01 29

15 01 02 plastic packaging

Cleaning agent: Water.

14. TRANSPORT INFORMATION

The transport of the product is safe in the company's containers and does not require additional precautions.

14.1 UN number
ADR, ADN, IMDG, IATA - Not applicable.

14.2 UN proper shipping name
ADR, ADN, IMDG, IATA - Not applicable.

14.3 Transport hazard class (es)
ADR, ADN, IMDG, IATA
Class - Not applicable

14.4 Packing group ADR, IMDG, IATA -	Not applicable
14.5 Environmental hazards: Environmentally Dangerous:	No.
14.6 Special precautions for user	Not applicable

15. REGULATORY INFORMATION

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

Components according to the Detergents Regulation 648/2004 / EC

Contains at least 5% but less than 15% anionic surfactants and less than 5% nonionic surfactants and soaps. Contains preservative METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE. May cause an allergic reaction. It contains perfume, limonene, hexyl cinnamal, linalool

15.2 Chemical Safety Assessment

A chemical safety assessment for the mixture has not been carried out

16. OTHER INFORMATION

List of the hazard statements referred to in section 3 (H-phrases):

H290: Causes metals corrosion

H315 Causes skin irritation

H318 Causes serious eye damage.

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

Footnotes and acronyms:

DNEL - Derived No Effect Level

EUH - CLP Special Risks Declaration

ABT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted Concentration No Impact

REACH number - REACH registration number

vPvB - extremely persistent and very bioaccumulative

The above information relates only to the specific product of our company based on our current level of knowledge and is not a guarantee of any specific product features