

Safety Data Sheet

According to Regulation (EC) No 1272/2008
Version 1 Date of issue 06 / 05/ 2015

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Trade name: **Zeo glass**

1.2 Use of the substance / mixture

Use of the substance/mixture: **Liquid for laundry**

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

Emergency telephone number: 210 -7793777

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

According to Regulation (EC) No 1272/2008

Serious eye damage Cat. 1

Skin irritation Cat. 2

Pictogram



Signal word: **Danger**

Hazard statement(s)(recognized): **H**

H318: Causes serious eye damage.

H315: Causes skin irritation.

Precautionary Statement(s)

P102: Away from children.

P280: Wear protective gloves/protective clothing/personal protective equipment for the eyes/face.

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 easy. Keep rinsing.

P337 + P313: If eye irritation does not retreat, consult a doctor.

P302 + P352: In case of skin contact: Wash thoroughly with soap and water.

P301 + P310: If swallowed: Call immediately **Emergency telephone number** or a doctor.

Other hazards

No other known dangers.

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

Section 3: Composition/information on ingredients

3.1 Mixtures

Hazardous ingredients

CAS No	Ingredient	Number REACH	Classification according to 1272/2008/EC	Concentration
68891-38-3	SODIUM LAURYL ETHER SULFATE	01-2119488639-16	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	0% - 5%
	SODIUM DODECYLBENZENE SULFONATE	Mixture: Result of neutralization	H302, H315, H318	5% - 15 %

Section 4: First Aid Measures

4.1 Description of first aid measures

After inhalation: In case of inhalation, move to fresh air and put the patient at a constant lateral position.

In case of skin contact:

Immediately remove contaminated clothes and shoes. Wash with soap and water.

In case of eye contact:

Rinse with plenty of water for several minutes with your eyelids open.

In case of ingestion: Rinse mouth with water and drink enough water.

4.2 Main symptoms and effects, acute and subsequent

Not available.

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

Not available.

Section 5: Firefighting Measures

5.1 Firefighting equipment

Appropriate firefighting equipment.

Fire dust, mousse, sand, water spray.

5.2 Specific hazards arising from the substance or mixture

In a fire may be released: nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂)

5.3 Recommendations for firefighters

Do not try to combat fire without the appropriate protective equipment: Wear self-contained breathing apparatus. Remove all people from the incident.

Special protective equipment:

Wear protective extinguishing clothing (garments, helmets, footwear, gloves) according to the European Standard EC 469.

6. ΜΕΤΡΑ FOR ΑΝΤΙΜΕΤΩΠΙΣΗ ΤΥΧΑΙΑΣ ΕΚΛΥΣΗΣ

6.1 Personal precautions, protective equipment and emergency procedures

The product, in contact with water, can form slippery mattresses. There is high risk of slipping after spill or leakage. Wear your personal protective clothing.

6.2 Environmental precautions:

Prevent further leakage and dissipation, if it is possible without risk. Do not flush into surface water or sanitary sewer system. The depuration in environment must be avoided. If the product contaminates the environment, inform respective authorities.

6.3 Methods and materials for restriction and cleaning:

Stop leaking.

Dispose of contaminated materials according to the current regulations.

6.4 Reference to other sections

For information for safe handling, see section 7.

For information for personal protective equipment, see section 8.

For information for disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Keep containers tightly closed.

Advice on protection against fire and explosion:

No special measures are required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Stored at temperatures below 30°C.

Compatible packaging materials: stainless steel, plastic.

Instructions on storing materials together: Keep separately from oxidizing substances.

Further statements about storage conditions:

None

7.3 Specific end use(s)

Not available.

Additional instructions on configuring technical installations:

No other recommendations. See section 7.

Section 8: Exposure controls/ personal protection
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8.1 Control Parameters

Components with workplace control which should be monitored:

Regards the ingredient SODIUM LAURYL ETHER SULFATE

DNELs

Secondary level without impact (DNEL) for exposure of workers:

Long-term systemic effects through repeated dermal contact, DNEL: 2,750 mg/kg bw/day

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

Secondary level without impact (DNEL) for exposure of consumers:

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

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

Long-term systemic effects through repeated ingestion DNEL: 15 mg/kg

PNECs

Predicted concentration without effects:

PNEC Freshwater: 0.24 mg/l

PNEC seawater: 0.024 mg/l

PNEC intermittent releases: 0.071 mg/l

PNEC sediment freshwater: 5.45 mg/kg

PNEC sediment seawater: 0.545 mg/kg

PNEC territory: 0.946 mg/kg

PNEC sewage treatment installations: 10 g/l

Regards the ingredient SODIUM DODECYLBENZENESULFONATE

DNEL Workers

Dermal, long-term exposure - systemic effects	170 mg/kg	Referred to body weight and day.
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Oral, Long-term exposure - systemic effects	12 mg/m ³	
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DNEL consumers

Dermal, long-term exposure - systemic effects	85 mg/kg	Referred to body weight and day.
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Oral long-term exposure - systemic effects	3 mg/m ³	
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Inhalation, long-term exposure - systemic effects	0,85 mg/kg	Referred to body weight and day.
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Environmental Exposure - PNEC

Environmental Section	Value	Note
Fresh Water		0,268 mg/l
Sea water	0,0268 mg/l	
Provisional Release	0.055 mg/l	
Treatment of waste water	5.6 mg/l	
Precipitate of freshwater	8,1 mg/kg	Referred to dry substance
Marine sediment	8,1 mg/kg	Referred to dry substance
Height	35 mg/kg	Referred to dry substance
Food		Without importance / unusable

8.2 Exposure controls

Personal protective equipment:

General protective and sanitary measures:

During the use of the material, do not eat, drink, smoke. Keep away from food, drink and animal's food. Remove immediately dirty, wet clothes. Wash hands before breaks and at the end of work. Avoid skin and eye contact.

Respiratory protection:

No respiratory protection is required.

Hand protection:

Wear protective gloves. The material of gloves must be impenetrable and resistant to the product. Due to no realization of tests, no specific material of gloves for the product can be proposed. Choose the material of glove, taking into account the penetration time, the extent permeability and degradation.

Material of gloves

Rubber Nitril.

The choice of an appropriate glove depends not only on its material, but also on other quality features which differ from one manufacturer to another according to EN 374.

Breakthrough time of the material of gloves

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

Eye protection:

Tightly fitting safety goggles absolutely.

Skin and body protection:

Wear suitable protective clothing.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>General Information</u>	
Appearance: form:	Thick liquid
Color:	Various
Odour:	Characteristic
Odour threshold:	-.
PH at 20 °C:	7 ± 0.5
Melting point/liquidation limits:	>300 °C
Boiling point/boiling limits:	>400 °C
Flashpoint :	Not self-igniting
Decomposition Temperature:	Unusable
Flammability	Undefined
Explosion Hazard:	There is no danger of explosion.

Explosion limits:	
Lower:	It does not exist.
Upper:	It does not exist.
Steam pressure:	Unusable
Density at 20 °C:	1,05 g/cm ³
Relative density	Undefined
Vapor Density	Unusable
Evaporation Speed	Unusable
Solubility in water at 20 °C:	Full
Distribution factor (n-octanol/H₂O) to 23°C	-
Viscous capacity:	
Dynamic:	Unusable
Kinematics:	Unusable

9.2 Other information

There is no other relevant information.

Section 10: Stability and reactivity

10.1 Reactivity

There are no elements.

10.2 Chemical stability

Thermal decomposition / conditions to avoid:

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

None known dangerous reaction.

10.4 Conditions to avoid

There is no other relevant information.

10.5 Incompatible materials:

There is no other relevant information.

Section 11: Toxicological information

11.1 Information on toxicological effects

Regards the ingredient **SODIUM LAURYL ETHER SULFATE**

Danger of immediate toxicity:

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

Initial irritating action:

Skin: Irritating to skin and mucous membranes.

Eye: Serious eye irritation/damage.

Sensitization:

None known.

Subacute to chronic toxicity:

The available toxicity studies provide a coherent picture of a subacute and chronic toxicity by mouth. For the entire category of Alcohol ethoxysulfates (AESs), value: NOAEL 300 mg/kg bw.

Toxicokinetics, metabolism and distribution

Not classified.

Acute effects (acute toxicity, skin irritation and corrosiveness)

Acute toxicity (oral):

The substance is not classified.

Skin irritation and corrosiveness (skin, eyes):

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

Sensitization

There is no sensitization.

Repeated dose toxicity

Not classified.

NOAEL: 300 mg/kg bw/day

Impact CMT (carcinogenicity, mutagenicity and reproduction toxicity)**Carcinogenicity:**

Not classified. The systemic toxicity is predicted to be very low. There is no need for further assessment.

Mutagenicity:

Not classified toxicity for reproduction:

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

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

Regards the ingredient SODIUM DODECYLBENZENESULFONATE**Acute oral toxicity**

LD50 rat: 2,000 - 5,000 mg/kg? OECD Guideline test 401

According to the available data, the criteria for classification are not fulfilled.

Acute inhalation toxicity

The analysis is not necessary.

For different ways of exposure, there are several available data.

Acute skin toxicity

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

The value above arises from the evaluation or the result of controls to similar products (similar conclusion) (Literature value)

Substance tested: Benzenesulfonic acid, C10-13-derivatives of crosspolymer salts of sodium on the basis of the data available, does not meet the criteria for classification.

Mutagenicity germ cells

There are no elements.

Section 12: Ecological information

Regards the ingredient **SODIUM LAURYL ETHER SULFATE**

12.1 Toxicity

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

12.2 Persistence and degradability

Easy biodegradability

Biodegradable according to regulation of detergents, 648/2004/EC.

The surfactants included in this product comply with the biodegradability criteria as defined in Regulation 648/2004/EC. The data supporting this statement are at the disposal of the relative authorities of the Member States and they will be provided to them after request of the manufacturer.

All studies concerning degradation were carried out according to the directions of the OECD or the EU guidelines and on the basis of the GLP.

The percentage degradation and biodegradability may vary between 76-81% for parameter O₂-consumption and 96-100% for parameter DOC-expulsion.

Experimental result: directly biodegradable 100% (28 d) DOC Removal Method: EU Method C.4-C (Determination of the "Ready" Biodegradability - Carbon Dioxide Evolution Test)

12.3 Bioaccumulative potential

No bioaccumulative potential.

No bioaccumulation in aquatic organisms is expected because the substance has a low log Kow ≤ 3 . Taking into account the rapid degradation of the substance in the environment and the low bioaccumulative potential, proven in aquatic species, bioaccumulation in terrestrial species is considered to be negligible.

12.4 Mobility in soil

Dissolve easily in water and is easily biodegradable.

Further ecological information:

General instructions: There is no known risk to the aquatic environment.

12.5 Results of PBT and vPvB assessment

PBT: Not classified.

vPvB: Not classified.

12.6 Other negative effects

Not available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

It is not allowed to throw it with common garbage. Do not dispose of waste into sewer.

Contaminated packagings:

Recommendation: deposition according to official instructions.

Means of cleaning: Water.

Section 14: Transport information

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

14.1 UN Number ADR, ADN, IMDG, IATA	Unusable -
14.2 Proper shipping name ADR, ADN, IMDG, IATA	Unusable -
14.3 Transport hazard class ADR, ADN, IMDG, IATA Class	Unusable -
14.4 Packing Group ADR, IMDG, IATA -	Unusable
14.5 Environmental hazards: Environmentally dangerous:	Not
14.6 Special precautions for user:	Unusable

Section 15: Regulatory information

15.1 Regulations/legislation regarding safety, health and environment for the substance or mixture

Ingredients according to Regulation of Detergents 648/2004/EC

It contains inter alia at least 5% but less than 15% anionic surfactants.
It contains conservative methylisothiazolinone, benzisothiazolinone, aroma.

15.2 Chemical safety assessment

There is no chemical safety assessment.

Section 16: Other information

For full text of R-, H- and EUH- phrases mentioned, see section 3.

H315: Causes skin irritation.
H318: Causes serious eye damage.
H412: Harmful to aquatic organisms, with long-term effects.
H302: Harmful if swallowed.

Footnotes and Acronyms:

DNEL - Secondary Level Without Effects
EUH - CLP Statement Specific risk
PBT - Persistent, Bioaccumulative, Toxic
PNEC - Predicted Concentration without Effects
Number REACH - Registration number REACH
vPvB - very Persistent and very Bioaccumulative

The information provided in this Safety Data Sheet concerns only the specific product of our company based on the current level of knowledge and it cannot be considered as a guarantee for quality specification of the product.