

Safety Data Sheet

According to Regulation (EC) No.1907/2006

Version 1 Data of issue 14/ 09/2018

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

1.1 Product identifier

Trade name: **Zeo glow**

1.2 Use of the substance / mixture

Use of the substance/mixture: Liquid for dishwashers for drying and brightening dishes and glasses

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

Skin corrosion (categ. 1A), H314

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labeling in accordance with Regulation (EC) 1272/2008

Pictogram



Warning word

Danger

Risk Statement (s)

H314: Causes severe skin burns and eye damage.

Preventive Statement (s)

P102 Keep out of reach of children.

P405 Store locked

P280: Wear protective gloves / protective clothing / eye / face protection.

P301 + P330 + P331: IF INHALED: Rinse mouth. DO NOT cause vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water / shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. If there are contact lenses, remove them if it is easy. Continue to rinse.

P309 + P311 IF exposed or inadmissible: Call a POISON CENTER or doctor.

2.3 Other hazards

Corrosion of the skin (Category 1A), H314 due to ph

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

Section 3: Composition/information on ingredients

3.1 Mixtures

Component(s)	CAS-No	REACH No	Classification according to 1272/2008/EK	Concentration %
Glycolic acid	79-14-1	01-2119485579-17	Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318	0% - 5 %
sodium p-cumenesulphonate	15763-76-5	01-2119489411-37	Eye Irrit. 2 - H319	0% - 5 %
Isopropyl alcohol	67-63-7	01-2119457558-25	Flamm. liquid 2, H225 Eye irrit. 2, H319 STOT SE 3, H336	5% -15%

For the full text of the H and EUH-phrases mentioned in this Section, see Section 16.

Section 4: First Aid Measures

4.1 Description of First Aid Measures

General advice: Consult a doctor. Show this safety data sheet to the doctor in attendance.

In case of inhalation:

In case of inhalation move to fresh air. If breathing is interrupted, apply artificial respiration. Consult a doctor.

In case of skin contact

Get rid of the contaminated clothes and shoes .Wash with soap and water. Consult a doctor.

In case of eye contact

Rinse with plenty of water for at least 15 minutes and consult a doctor.

In case of ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, acute and subsequent

The most important of the known symptoms and effects described in the labeling (see section 2.2) and / or in Chapter 11

4.3 Indication of any immediate medical attention and special treatment needed

There are no elements.

Section 5: Firefighting measures

5.1 Fire-fighting equipment/ Appropriate firefighting equipment

Use spray water, mousse fixed in alcohol, dry extinguishing agent or carbon dioxide.

5.2 Specific hazards arising from the substance or mixture

There is no data.

5.3 Recommendations for firefighters

Do not try to combat fire without the appropriate protective equipment: Wear self-contained breathing apparatus.

5.4 Further Information

There is no elements

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Do not breathe fumes/ mist/ gas. Ensure adequate ventilation. Remove all sources of ignition. Attention to the vapors gathered together as they reach to explosive concentrations. Vapors can gather in areas of lower concentrations.

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.

6.3 Methods and materials for restriction and cleaning

The injected material must be collected with safe in sparks fume hood or with wet vacuuming and given in containers for disposal according to local legal regulations . Disposal of the product in suitable sealed containers.

6.4 Reference to other sections

For rejection, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid skin and eyes contact. Avoid inhalation of fumes and fog.

Keep away from sources of ignition - No smoking. Take measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry place. The reservoir must be kept tightly closed in a place with good ventilation.

The open containers must be closed carefully and stored upright, to avoid any oil leakage. Sensitive to carbon dioxide

7.3 Specific end use(s)

Some of its uses are mentioned in section 1.2, no other specific uses have been defined.

Section 8: Exposure controls/personal protection

8.1 Control Parameters

Ingredients with controlled parameters in the workplace
SODIUM CUMENSULFONATE

Derivative levels with impact

TYPE	EXPOSURE	PRICE	POPULATION	IMPACTS
DNEL		7.6 mg/kg bw/day	workers	SYSTEMIC
DNEL	Dermal Long term	53.6 mg/m ³	workers	SYSTEMIC
DNEL	Inhalation Long term	3.8 mg/kg bw/day	consumers	SYSTEMIC
DNEL	dermal Long term	13.2 mg/m ³	consumers	SYSTEMIC
DNEL	Inhalation Long term oral	3.8 mg/kg bw/day	consumers	SYSTEMIC

TYPE	SPACE DETAILS	PRICE	METHODS DETAILS
PNEC	Sweet water	0.23 mg/l	Assessment factors
PNEC	Urban waste water treatment plants	100 mg/l	Assessment factors
PNEC	pNECA continuous	2.3 mg/l	Assessment factors

2-PROPANOL

TWA 400 ppm LIMIT VALUE OF EXPOSURE

STEL 500 ppm LIMIT VALUE OF EXPOSURE

DNEL

Propan-2-ol, Isopropyl alcohol	Total use : workers EXPOSURE ROUTES:dermal Potential health damage: Long-term - systemic effects Price: 888 mg / cm2
	Total use : workers EXPOSURE ROUTES:inhalation Potential health damage: Long-term - systemic effects Price: 500 mg / m3
	Total use : consumers EXPOSURE ROUTES:dermal Potential health damage: Long-term – systemic effects Price: 319 mg / cm2
	Total use : consumers EXPOSURE ROUTES:inhalation Potential health damage: Long-term - systemic effects Price: 89 mg / m3
	Total use : consumers EXPOSURE ROUTES:swallowing Potential health damage: Long-term – systemic effects Price: 26ppm

PNEC

Propan-2-ol , Isopropyl alcohol	Sweet water Price: 140.9 mg/l
	Sea water Price :140.9 mg/l
	Intermittent use / release
	Sweet water Price: 552 mg / kg

	Marine sediment Price: 552 mg / kg
	Terrain Price: 28 mg / kg
	Sewage treatment plant Price: 2251 mg / l
	Oral Price: 160 mg / kg

8.2 Exposure controls Appropriate engineering controls

The recommended protective measures for handling chemicals should be taken into account. Wash hands before breaks and at the end of work.

Personal protective equipment

Eye / face protection

Protective glasses that seal perfectly. Protective shield for the face. Use eye protection equipment tested and approved to the appropriate government standards, such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. The gloves should be examined before use. Use the correct glove removal technique (without touching the outer surface of the glove) to avoid skin contact with this product. Dispose of contaminated gloves after use, in accordance with applicable laws and good laboratory practice. Wash and dry hands

The protective gloves which are going to be used must comply with the requirements of EU Directive 89/689 / EEC and the standard EN 374 resulting therefrom.

Full contact Material: Nitrile rubber Minimum layer thickness: Duration: 480 Minutes

Contact with droplets Material: Nitrile rubber Minimum layer thickness: Duration: 480 Minute

In case of use in solution or mixing with other substances and under deviations from those of EN 374, you should contact the supplier of EC approved gloves. This recommendation is only advisory and should be evaluated by the safety officer should be familiar with the specific circumstance that concerns the expected use by our customers
It should not be interpreted that approval is granted for each use case.

Body Protection

Full protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the workplace.

Respiratory protection

When the risk assessment indicates that the use of respirators is appropriate, use a multi-purpose US respirator or spare ventilator filters of the ABEK type (EN 14387) as an alternative to the mechanical controls. If the ventilator is the only protection, use a full-ventilated respirator with an independent air supply. Use respirators and components tested and approved by state standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage and spillage if this is possible without risk. It is forbidden to enter into a sewer network. Elimination in the environment should be avoided.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

A) View Format:	liquid
B) Odour	Characteristic
C) Odour Threshold	There are no elements.
D) PH	2 ± 0.5
E) Melting point/freezing point	Information not available
F) Initial boiling point and Boiling range	There are no elements.
G) Flashpoint	there are no elements.
H) Evaporation rate	There are no elements.
I) Flammability (solid, gas)	There are no elements.
J) Senior threshold Flammability or detonation	There are no elements
K) Vapor pressure	There are no elements
L) Vapor density	There are no elements
M) Relative density	There are no elements
N) Water solubility	Soluble
O) Partition coefficient n-octanol/water	There are no elements
P) Temperature Auto-ignition	There are no element
Q) Temperature Decomposition	There are no elements
R) Viscosity	There are no elements
S) Explosive properties	There are no elements
T) Oxidizing properties	There are no elements

9.2 No further information for security

No data available

Section 10: Stability and reactivity

10.1 Reactivity

There are no elements.

10.2 Chemical stability

There are no elements.

10.3 Possibility of hazardous reactions

There are no elements.

10.4 Conditions to avoid

There are no elements.

10.5 Incompatible materials

Powerful oxidants

10.6 Hazardous decomposition products

Additional decomposition products - There are no elements. In case of fire :see section 5.

Section 11: Toxicological information

11.1 Information on toxicological effects

It concerns the ingredients

GLYCOLIC ACID

Acute oral toxicity

LD50 / Rat: 2040 mg / kg

Method: US EPA TG OPP 81-1

Method: OECD Test Guideline 401

Acute inhalation toxicity

Acute toxicity estimate: 4.85 mg / l

LC50 / 4 h Rat: 3.6 mg / l

Powder

Acute dermal toxicity

Acute toxicity / human assessment: > 5 000 mg / kg

Skin irritation

Rabbit

Classification: Corrosive

Result: Causes burns.

Method: OECD Test Guideline 404

Eye irritation

Rabbit

Classification: Causes serious burns.

Result: Corrosive

Method: OECD Test Guideline 405

Sensitization

Waterwind

Classification: Does not cause skin sensitization.

Result: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Repeated dose toxicity

Oral Rat

NOAEL: 150 mg / kg

Method: OECD Test Guideline 408

Changes in organ weight, Effects on the kidneys

Assessment of mutagenicity

Experiments on animals showed no mutagenicity. Experiments on bacteria and mammalian cell cultures did not show a mutational effect.

Assessment of carcinogenicity

Not classified as carcinogenic to humans. Experiments on animals have shown no carcinogenic effects.

Evaluation of Reproductive Toxicity

No Reproduction Toxicity Animal experiments have shown no reproductive toxicity

Assessment of teratogenicity

Data suggest that the substance is not a developmental toxin for animals.

Experiences in humans

Excessive exposure may have the following harmful effects:

breathe in

Upper respiratory system, mucous membranes, bronchi: cough, shortness of breath, pain, local irritation

Contact with skin

Skin: Feeling, Irritation, Necrosis, Rash

Eye contact

Eyes: Severe irritation, Corrosion, Depigmentation

Ingestion

Mucocutaneous, Stomach, Kidney: Diarrhea, Vomiting, Gastrointestinal Disorders, Pain in the Underworld

SODIUM CUMENSULFONATE

Acute toxicity

Endpoint	Kind	Result	Exposure
LD50 dermal	rabbit	>2000 mg/kg	-
LD50 oral	rat - man, woman	>7000 mg/kg	

Irritation/Corrosion

Test	Kind	Exposure route	Result
OECD 405 Acute Eye Irritation/ Corrosion	rabbit	Eyes	Mild irritant
OECD 404 Acute Dermal Irritation/ Corrosion	Rabbit	Skin	Mild irritant

Sensitive substance

Test	Exposure route	Kind	Result
OECD 406 Skin Sensitization	Skin	Guinea pig	Does not cause sensitization

It concerns the 2-propanol

Acute toxicity

LD50 Oral - Rat -

Comments: Behavior: Different sleep time (including changing to reflex reflex). Behavior: Drowsiness (generally reduced action).

LC50 Inhalation - Rat - 8 h - 16000 ppm

LD50 Skin - Rabbit - 12,800 mg / kg

Skin corrosion and irritation

Skin - Rabbit

Result: Light skin irritation

Severe damage / irritation of the eyes

Eyes - Rabbit

Result: Eye irritation - 24 h

Respiratory sensitization or sensitization of the skin

No data available

Germ cell mutagenicity

No data available.

Carcinogenicity

This product is or contains a component which can not be classified for its carcinogenicity according to the classification of IARC, ACGIH, NTP and EPA. IARC: 3 - Group 3: Not classified for human carcinogenicity (2-Propanol)

Reproductive toxicity

No data available.

Specific target organ toxicity A single exposure

Inhalation, Oral

It may cause drowsiness or dizziness.

Specific target organ toxicity repeated exposure

No data available.

Suction toxicity

No data available.

Section 12: Ecological information

It concerns the ingredients

Glycolic acid

Toxicity to fish

LC50 / 96 h / Pimephales promelas: 164 mg / l

Toxicity to aquatic plants

ErC50 / 72 h / Pseudokirchneriella subcapitata (green algae): 44 mg / l

Method: OECD TG 201

NOEC / 72 h / Pseudokirchneriella subcapitata (green algae): 20 mg / l

Method: OECD TG 201

Toxicity to aquatic invertebrates

EC50 / 48 h / Daphnia magna: 141 mg / l

Method: OECD TG 202

Chronic toxicity to aquatic invertebrates

there is no evidence

12.2. Persistence and degradability

Biodegradability

It is readily biodegradable according to OECD criteria.

Biodegradable

12.3. Bioaccumulative potential

there is no evidence

12.4. Mobility on the ground

there is no evidence

12.5. Results of the PBT and vPvB assessment

Assessment of PBT and vPvB

Unregistered PBT / unaltered vPvB

12.6. Other negative effects

there is no evidence

SODIUM CUMENSULFONATE

TOXICITY

EPA OPPTS EPA OTS 797. 1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)	Acute EC50	48 hours Static	Daphne	>1000 mg/l
EPA OPPTS EPA OTS 797. 1050 (Algal Toxicity, Tiers I and II)	Acute EbC 50 (biomass)	96 hours Static	Seaweed	>230 mg/l
OECD 209 Activated Sludge, Respiration Inhibition Test	Οξεία ErC 50 (rhythm development))	Static	Bacteria	>1000 mg/l
EPA OPPTS EPA OTS 797. 1400 EPA OPPTS	Acute LC50	3 hours Static	Fish seaweed	>1000 mg/l
	Chronic NOEC	96 hours Static		

Persistence and degradability

Test	Period	Result
OECD 301B Ready Biodegradability - CO2 Evolution Test	28 days	100 %

Bioaccumulative potential

LogPow	BCF	Eventual
-1.1	-	Low

It concerns the ingredient 2-propanol

12.1 Toxicity

Toxicity to fish LC50

Pimephales promelas - 9,640.00 mg / l - 96 h

Toxicity to daphnia and other aquatic molluscs

EC50 - Daphnia magna - 5.102,00 mg / l - 24 h

EC50 immobilization - Daphnia magna - 6.851 mg / l - 24 h

Toxicity to seaweed EC50 - Desmodesmus subspicatus (green algae) -> 2.000,00 mg / l - 72 h EC50 -

Algae -> 1.000,00 mg / l - 24 h

12.2 Persistence and degradability

No data available.

12.3 Possibility of bioaccumulation

Bioaccumulation is not expected (log Pow <= 4).

12.4 Mobility on the ground

No data available.

12.5 Results of the PBT and vPvB assessment

The substance / mixture does not contain ingredients that are considered to be either persistent, bioaccumulative or toxic

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

12.6 Other adverse effects

No data available.

Section 13: Disposal considerations

13.1 Waste management methods

Product

Residues and non-recyclable solutions are delivered to an approved waste treatment company.

Unpacked packages (packages)

Disposed of as unused product.

ANNEX

1) Disposal / Product

2) Disposal / Uncleaned packaging

20 01 29 * detergents containing dangerous substances

15 01 10 * packaging containing or contaminated by residues of dangerous substances

Section 14: Transport information

14.1 UN number 3265

ADR / RID: 3265 IMDG: 3265 IATA: 3265

14.2 UN proper shipping name

ADR / RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)

IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)

IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)

14.3 Transport hazard class (es)

ADR / RID: 8 IMDG: 8 IATA: 8

14.4 Packing group

ADR / RID: II IMDG: II IATA: II

14.5 Environmental risks

ADR / RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

Section 15: Regulatory information

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

This Safety Data Sheet meets the requirements of Regulation (EC) 1907/2006 and CLP Regulation (EC) 1272/2008

According to the EC Detergent Regulation 648/2004: at least 5% but less than 15% nonionic surfactants and less than 5% anionic surfactants.

Observe employment restrictions in accordance with the Workers Protection Act (94/33 / EC).

15.2 Chemical Safety Assessment

No data available

Section 16:Other information

Full text of H-Statements referred to in Section 3

H225 Highly flammable liquid and vapor.

H336 May cause drowsiness or dizziness

H319 Causes severe eye irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

Flam. Liq. Flammable liquids

Skin Corr. Skin corrosion

Acute Tox. 4 (Inhalation)

STOT SE Specific Target Organ Toxicity - one-off exposure

Eye Dam./Irrit. Eye irritation

Further information

The above information is considered to be correct but does not include all data and should only be used as a guide. The information in this document is based on our current knowledge and does not constitute a guarantee for the product's properties.