

## **Safety Data Sheet**

According to REGULATION 1272/2008/ EC Version 1

Date of publishing	Page	
18/05/2017	1/9	

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

#### 1.1 Product identifier

Trade name: ZEO INOX

## 1.2 Use of the substance / mixture

Use of the substance/mixture: Cleaning liquid for stainless surfaces

#### 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 : <u>zthellasgroup@gmail.com</u>

#### 1.4 Emergency telephone number

166 Greece (National emergency center) +30 210 7793777 (Emergency telephone number)

## Section 2: Hazards identification

2.1 Classification of the substance or mixture

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

Eye irritation (Categorie 2)

Date of publishing 18/05/2017	Page 2/9	

## 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word: Caution

#### Hazard statements(recognized) H

H319: Causes severe eye irritation

## Precautionary Statement(s)

P102: Away from children. . 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.

#### **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 Mixtures

## Hazardous ingredients

Cas No	Ingredient	REACH No	Sort according to 1272/2008/EC	Content
79-14-1	Glycolic acid	01-21194885579- 17	Acute Tox. 4; H332 Skin Corr. 1B; H314	0-5%
137-16-6	sodium n- lauroylsarcosinate	01-2119527780-39	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1, H318	0-5%
56539-66-3	3-methoxy-3-methylbutan-1-ol	01-2119976333-33	H319	5-15%
69029-44-3	Polyoxyethylene glyceryl ether phosphate		Skin Irrit. 2; H315 Eye Dam. 1; H318	0-5%

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Date of publishing 18/05/2017	Page 3/9
10/03/2017	5/7

## 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 skin contact: Rinse immediately with water and soap and rinse thoroughly. Immediately remove contaminated clothing. After eye contact: Wash eyes with running water for a long time and with eyelids open. After swallowing: Rinse mouth and drink plenty of water.

# 4.2 Most important symptoms and effects, acute or delayed

Not available.

**4.3 Indication of any immediate medical attention and special treatment required** Not available.

## **5. FIREFIGHTING MEASURES**

## 5.1 Fire-extinguishing media

Suitable extinguishing media.

Fire-extinguishing powder, Foam, sand, Water spraying

5.2 Special hazards arising from the substance or mixture

In a fire, it is possible to release: oxides of nitrogen (NOx), carbon monoxide (CO), dioxide Sulfur (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 harmony 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 individual Protective clothing.

6.2 Environmental precautions:

Obstruct the surface extension.

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.

For disposal information 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 30 ° C. Compatible packaging materials: Stainless steel, plastic.

Date of publishing 18/05/2017	Page 4/9	

Storage: Keep separate from oxidizing 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 workplace exposure limit values to be monitored:

GLYCOLIC ACID

No Effect Level (DNEL)

Туре	Report	Price	Population	Impact
DNEL	Long term Dermal	57,69 mg/kg bw/day	Workers	Systematic
DNEL	Long term Inhalation	9,2 mg/m3	Workers	Systematic
DNEL	Long term Dermal	28,85 mg/kg bw/day	Consumers	Systematic
DNEL	Long term Inhalation	2,3 mg/m3	Consumers	Systematic

EL Long term Oral	0,75 mg/kg bw/day	Consumers	Systematic	
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Predicted concentration without effects (PNEC)

Section: Fresh water	Price: 0,0312 mg / I
Section: Sea water	Price: 0.0031 mg / I
Section: Intermittent use / release	Price: 0.312 mg / I
Section: Fresh water sediment	Price: 0.115 mg / kg
Section: Marine precipitate	Price: 0.0115 mg / kg
Section: Soil	Price: 0.007 mg / kg
Section: Sewage treatment plants	Price: 7 mg / I
Section: Oral (food chain)	Price: 16.66 mg / kg

#### 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 dirty, wet clothing. Wash your hands before and after the break. Avoid contact with skin. Avoid contact with eyes and skin.

#### **Respiratory protection:**

It is not necessary

## Hand protection:

Protective gloves. The glove material should be impervious and resistant to the product. Due to nontesting, no glove material can be proposed for the product. Select the glove material taking into account transit times, permeation rates and degradation.

# **Glove material**

Nitrile Rubber.

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

#### Penetration time of glove material

For mixtures of the chemicals listed below, the transit 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 Data on basic physical and chemical properties

#### **General information**

Appearance: Form: Color: Odor: Odor threshold: PH at 20 ° C: Melting point / Melting range: Boiling point / boiling range: Flash point: Decomposition temperature: Self ignition risk Risk of product explosion: Explosion hazard limits: Inferior: Higher: Vapor pressure: Density at 20 ° C: Relative density Vapor density Vaporization rate Solubility in water at 20 ° C: Dispensing factor (n-Octanol / H2O) at 23 ° C Viscous property: Dynamic: Kinematic:

thin liquid various characteristic -

6.5 ± 0.5 Undetermined. Not determined. Material does not ignite Not applicable. Not applicable None

None. Not applicable 1.02 g / cm<sup>3</sup> Not defined. Not applicable Not applicable complete

Not applicable Not applicable

#### 9.2 Other information

No further relevant information 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.

Date of publishing	
18/05/2017	

Page 6/9

## **11.TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

GLYCOLIC ACID

Acute oral toxicity LD50 / Rat: 2040 mg / kg Method US EPA TG OPP 81-1

Acute inhalation toxicity Acute toxicity estimate: 4.85 mg / I

Acute dermal toxicity Acute toxicity / human assessment:> 5 000 mg / kg Method: Expert judgment

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 NOAEL rat: 150 mg / kg Method: OECD Test Guideline 408 Changes in organ weight, Effects on the kidneys

Assessment of mutagenicity Experiments on animals showed no mutagenic effects. Experiments on bacteria and mammalian cell cultures showed no mutational effect.

Assessment of carcinogenicity Not classified as a carcinogen to humans. Experiments on animals have shown no carcinogenic effects

Evaluation of Reproductive Toxicity No Reproductive Toxicity. Animal experiments did not show reproductive toxicity

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

Carcinogenicity Conclusion / Summary: No data available. Toxicity to reproduction Conclusion / Summary: No data available. Teratogenic potential Conclusion / Summary: No data available.

Date of publishing 18/05/2017	Page 7/9	

#### SODIUM N-LAUROYLSARCOSINATE

Acute Oral Toxicity: Oral LD50 (Rat, Male and Female):> 5.000 mg / kg Method: OECD Test Guideline 401 GLP: yes Acute inhalation toxicity: LC50 (Rat, male and female): 1 - 5 mg / I Exposure time: 4 h Method: OECD Test Guideline 403 Test substance: 35% GLP: yes Remarks: Harmful when inhaled. LC50 (Rat, male and female): 0.05 - 0.5 mg / I Exposure time: 4 h Method: OECD Test Guideline 403 GLP: yes Remarks: Toxic by inhalation. Acute dermal toxicity: Remarks: Not applicable

Skin erosion and irritation Species: Rabbit Exposure time: 4 h Assessment: No skin irritation Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes Test substance: 30% Rating: Non-corrosive Method: EPISKIN Human Skin Model Assay Result: Non-corrosive GLP: yes

Severe damage / irritation of the eyes Species: Rabbit Method: OECD Test Guideline 405 Result: irritant Test substance: 30%

Respiratory sensitizing or sensitizing the skin Test Type: Maximization Experiment Species: Waterbird Assessment: Does not cause skin sensitization. Method: Directive 67/548 / EEC, Annex V, B.6. Result: Does not cause allergic sensitivity GLP: yes Test substance: 30%

Genital cell mutagenicity In vitro genotoxicity: Test type: in vitro test Metabolic activation: with or without metabolic activation Method: Mutagenesis (Salmonella typhimurium - reverse mutation assay) Result: negative GLP: yes Test Type: Chromosome Deformation Test in Vitro Species: Human lymphocytes Metabolic activation: with or without metabolic Activation Method: Directive 67/548 / EEC, Annex V, B.10. **Result:** negative GLP: yes Test type: in vitro test Metabolic activation: with or without metabolic Activation Result: negative GLP: yes

Carcinogenicity No data available

Reproductive toxicity Effects on fertility: Test substance: No data available STOT-one-off report Product: Assessment: No data available Repeated dose toxicity Species: Rat, male and female NOAEL: 30 mg / kg Method of Application: Oral Exposure time: 90 days Number of reports: 1x / day Method: Directive 67/548 / EEC, Annex V, B.7. GLP: yes

Suction toxicity No data available

Further information No data available

3-METHOXY-3-METHYLBUTAN-1-OLE

Acute toxicity Not classified according to available information.

Acute oral toxicity: LD50 (Rat): 4.400 mg / kg

Acute dermal toxicity: LD50 (Rat):> 2,000 mg / kg Assessment: This substance or mixture has no acute toxicity to the skin

Skin erosion and irritation Not classified according to available information. Species: Rabbit Result: No skin irritation

Severe damage / irritation of the eyes Causes serious eye irritation. Species: Rabbit Result: Eye irritation, reversed within 21 days

Respiratory sensitization or sensitization of the skin Skin sensitization: Not classified according to available information. Respiratory sensitization: Not classified according to available information. Test Method: Maximization Experiment Exposure routes: Contact with skin Species: Waterwind Result: negative

Germ cell mutagenesis Not classified according to available information.

Carcinogenicity Not classified according to available information.

Reproductive toxicity Not classified according to available information. Effects on fertility: Test Type: Reproduction / Test of Toxicity Test In development Type: Rat Method of Application: Ingestion Method: OECD Test Guideline 421 Result: negative

Effects on fetal development: Type of Test: Fetal development Type: Rat Method of Application: Ingestion Result: negative

STOT-one-off report Not classified according to available information.

Date of publishing 18/05/2017	Page 9/9	

STOT-repeated exposure Not classified according to available information.

Repeated dose toxicity Species: Rat, male NOAEL: 60 mg / kg LOAEL: 250 mg / kg Method of Application: Ingestion Exposure Time: 28 Days Species: Rat, male LOAEL: 0.53 mg / I Method of Application: Inhalation (steam) Exposure Time: 28 Days

Suction toxicity Not classified on the basis of available information.

POLYOXYETHYLENE GLYCERYL ETHER PHOSPHATE

Acute toxicity Acute Oral Toxicity: Remarks: Low Acute Toxicity. The information given is based on data, which Are derived from the individual components and the toxicology of similar products.

Skin erosion and irritation: Result: irritant Remarks: The information given is based on data derived from the individual components and the toxicology of similar products.

Serious eye damage / eye irritation: Assessment: Risk of serious eye damage. Remarks: The information given is based on data derived from the individual components and the toxicology of similar products.

Respiratory sensitization or sensitization of the skin Remarks: No data available

Genital cell mutagenicity In vitro genotoxicity: Remarks: No data available

Carcinogenicity: Remarks: This information does not exist. Reproductive toxicity Product: Effects on fertility: Remarks: This information does not exist.

STOT-one-off report: Assessment: No data available Repeated dose toxicity: Remarks: This information does not exist.

Suction toxicity: No data available

Further information: Remarks: The information given is based on data derived from the individual components and the toxicology of similar products.

## **12. ECOLOGICAL INFORMATION**

GLYCOLIC ACID

12.1. Toxicity

Toxicity to fish LC50 / 96 h / Pimephales promelas (carp): 164 mg / I Toxicity to aquatic plants ErC50 / 72 h / Pseudokirchneriella subcapitata (green algae): 44 mg / I Method: OECD TG 201 NOEC / 72 h / Pseudokirchneriella subcapitata (green algae): 20 mg / I Method: OECD TG 201

Toxicity to aquatic invertebrates EC50 / 48 h / Daphnia magna: 141 mg / I Method: OECD TG 202

12.2. Persistence and degradability Biodegradable

12.3. Bioaccumulative potential There is no evidence

12.4 Soil mobility There is no evidence

12.5. Results of the PBT and vPvB assessment Assessment of PBT and vPvB Unregistered PBT / unidentified vPvB

12.6.Other negative impacts T here is no evidence

SODIUM N-LAUROYLSARCOSINATE

12.1 Toxicity Toxicity to fish: LC50 (Danio rerio (Zebrosporo)): 107 mg / I Exposure time: 96 h Testing type: semi-static test Test substance: 30% Method: OECD Test Guideline 203 GLP: yes Toxicity to daphnia and: EC50 (Daphnia magna): 29,7 mg / I Other aquatic molluscs Exposure time: 48 h Test type: static test Test substance: 30% Method: OECD TG 202 GLP: yes Toxicity to seaweed: ErC50 (Desmodesmus subspicatus): 79 mg / I Exposure time: 72 h Testing type: static test Test substance: 30% Method: OECD TG 201 GLP: yes EbC50 (Desmodesmus subspicatus): 39 mg / I Exposure time: 72 h Testing type: static test Test substance: 30% Method: OECD TG 201 GLP: yes

12.2 Persistence and degradability Biodegradability: Test Type: ISO 14593 Result: It is readily biodegradable. Biodegradation: 82% Exposure time: 28 d Method: Directive 67/548 / EEC, Annex V, C.4.B. GLP: yes

12.3 Possibility of bioaccumulation Bioaccumulation: Remarks: Bioaccumulation is not expected (log Pow <= 4). Partition coefficient: n-octanol / water: log Pow: estimated at 0.37

12.4 Mobility on the ground No data available

12.5 Results of PBT and vPvB assessment Assessment: The substance / mixture does not contain any constituents considered That they are either PBT or highly persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher. 12.6 Other adverse effects No data available

#### 3-METHOXY-3-METHYLBUTAN-1-OLE

12.1Toxicity Toxicity to fish: LC50 (Oryzias latipes (Japanese medaka)):> 100 mg / I Exposure time: 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic molluscs: EC50 (Daphnia magna):> 1,000 mg / I Exposure time: 48 h Toxicity to seaweed: NOEC (Selenastrum capricornutum (green algae)): 1,000 mg / I Exposure time: 72 h ErC50 (Selenastrum capricornutum (green algae)):> 1,000 mg / I Exposure time: 72 h Toxicity to bacteria: EC50:> 1,000 mg / I Exposure time: 3 h Toxicity to daphnia and other aquatic molluscs (Chronic toxicity): NOEC: 100 mg / I Exposure time: 21 d Species: Daphnia magna Method: OECD TG 211

12.2 Persistence and degradability Biodegradability: Result: Biodegradation is difficult. Biodegradation: 78.9% Exposure time: 28 d Method: OECD Test Guideline 310 Result: It is biodegradable by itself. Biodegradation: 100% Exposure time: 28 d Method: OECD TG 301 C

12.3 Possibility of bioaccumulation Partition coefficient: n-octanol / water: log Pow: 0.18

12.4 Mobility on the ground No data available

12.5 Results of PBT and vPvB assessment No matter what

12.6 Other adverse effects No data available

#### POLYOXYETHYLENE GLYCERYL ETHER PHOSPHATE

12.1 Toxicity Product: Toxicity to fish: Remarks: No data available

12.2 Persistence and degradability: Biodegradability: Remarks: Immediately biodegradable

12.3 Possibility of bioaccumulation Remarks: No data available

12.4 Mobility on the ground Remarks: No data available

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

12.6 Other adverse effects No data available

Date of publishing 18/05/2017	Page 12/9	

## 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste management methods

Recommendation: It must not be deposited with common waste. Do not empty into drains.

# Uncleaned packaging:

Recommendation: Disposal should be in accordance with official regulations. Cleaning agent: Water.

## 14. TRANSPORT INFORMATION

The transport of the product is safe in the company's containers and no additional precautions are required.

<b>14.1 UN number</b>	Not applicable.
ADR, ADN, IMDG, IATA	–
<b>14.2 UN proper shipping name</b>	Not applicable.
ADR, ADN, IMDG, IATA	_
<b>14.3 Transport hazard class (es)</b> ADR, ADN, IMDG, IATA Class	Not applicable. –
<b>14.4 Packing group</b>	Not applicable
ADR, IMDG, IATA	_
<b>14.5 Environmental hazards:</b> 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% non-ionic surfactants, EDTA Na and soaps. Contains preservative METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE and fragrance

#### **15.2 Chemical Safety Assessment**

No chemical safety assessment for the mixture has been carried out

## **16. OTHER INFORMATION**

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

H314 Causes severe skin burns and eye damages

H315 Causes skin irritation

Date of publishing 18/05/2017	Page 13/9	

H318	Causes serious eye damage.
H319	Causes serious eye irritation

Skin/Eye cor.	Skin,eye corrosion
Skin/Eye irrit.	Skin,eye irritation

## Footnotes and acronyms:

DNEL - Derived No Effect Level EUH - CLP Special Risk Statement ABT - Persistent, Bioaccumulative and Toxic PNEC - Predicted Concentration No Impact REACH number - REACH registration number VPvB - highly persistent and very bioaccumulative

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