

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006
Version 1 Date of issue 28/04/2016

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

1.1 Product identifier

Trade name: **GF FOAM**

1.2 Uses of the substance/mixture

Use: **foam for cleaning cars**

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: Hazard identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin corrosion (category 1a), H314

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

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Symbol



Signal word: **Danger**

Hazard statement (recognized)

H314: Causes severe skin burns and eye injuries.

Precautionary Statement(s)

P102: Away from children. P405: To be kept locked.

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

P301+P330+P331: IF SWALLOWED: rinse mouth. Do not induce vomiting.

P303+P361+P353: In case of contact with skin (or hair): Take off immediately all contaminated clothing. Rinse the skin with water/shower.

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

P309 + P311: In case of sickness or illness: Call **Emergency telephone number** or a doctor.

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 of ingredients

3.1 Mixtures

Ingredient(s)	CAS-No.	Number Reach	Classification according to 1272/2008/EC	Concentration
Sulfonic acids, C14-16 (even numbered); Alkane hydroxy and C14-16 (even Numbered)-alkene, sodium salts	111905-53-4	01-2119513401-57	Skin Corr./Irrit. 2 Eye Dam. /Irrit. 1, H318, H315	5% - 15 %
Cocoamidopropyl betaine	61789-40-0	01-2119489410-39	Eye Dam. 1, H318	0% - 5 %
Ethylenediaminetetraacetic acid, Tetrasodium salt	64-02-8	01-2119486762-27	Acute Tox. 4 - H302 Eye Dam. 1 - H318	5% -15%

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

Section 4: First Aid Measures

4.1 Description of the first aid measures: General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

In case of inhalation

In case of inhalation remove to fresh air. In case of interruption of breathing, apply artificial respiration. Consult a doctor.

In case of skin contact

Immediately remove contaminated clothes and shoes. Wash with soap and water. Consult a doctor.

In case of eyes contact

Rinse with large amounts 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. Wash the mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, acute and subsequent

The most important of the known symptoms and the effects described in the labelling (see paragraph 2.2) and / or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

There are no elements.

Section 5: Firefighting measures

5.1 Firefighting 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

No hazards.

5.3 Recommendations for fire-fighters

During the fire extinguishing wear perpetuating breathing apparatus, when it is necessary.

5.4 Further Information

There are no elements.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove to a safe place.

For personal protective clothing see paragraph 8.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains, inform respective authorities. The depuration in environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For the rejection see paragraph 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of respirable particles. For precautions see 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry place. Prevent unauthorized access. Store at room temperature in the original container. Keep container tightly closed.

7.3 Specific end use(s)

A part of the uses is mentioned to paragraph 1.2. There are no other special uses.

Section 8: Exposure controls/personal protection

8.1 Control Parameters

Components with workplace control parameters

ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT

DNEL Source basic data: IUCLID 5 datasheet:

Secondary level without consequences for workers with acute local

Respiratory exposure (mg/m³) / Secondary level without consequences for

Workers with acute systemic respiratory exposure (mg/m³): 2.8

Secondary level without consequences for the general population with acute

Local/systemic respiratory exposure (mg/m³): 1.7

Secondary level without consequences for the general population with

Long-term systemic oral report (mg/kg bw/day): 28

PNEC Source basic data: IUCLID 5 datasheet:

Predicted concentration without effect on fresh water (mg/l): 2.8

Predicted concentration without effect on seawater (mg/l): 0.28

Predicted concentration without effects in case of uninterrupted release (mg/l): 1.6

Predicted concentration without effects on processing factory waste (mg/l): 57

Predicted concentration without effects on soil (mg/kg): 0.95

DNEL/DMEL

Product name/ingredients	Type	Exposure	Value	Population	Effects
Sulfonic acids, C14-16 (even numbered); Alkane hydroxy and C14-16 (even Numbered)-alkene, sodium salts	DNEL	Long-term Skin		Workers	Systematic
	DNEL	Long-term Inhalation	2158,33 mg/ kg bw/ day	Workers	Systematic
	DNEL	Long-term Skin	152,22 mg/ m3	Consumers	Systematic
	DNEL	Long-term Oral	1295 mg/kg bw/ day 12,95 mg/ kg bw/ day	Consumers	Systematic

PNEC

Product name/ingredients	Details of space	Value	Details of method
Sulfonic acids, C14-16 (even numbered); Alkane hydroxy and C14-16 (even Numbered)-alkene, sodium salts	Ocean	0.0042 mg/l	Factors Evaluation
	Territory	0,0061 mg/kg	Allocation balance
	Προσχωματικό material marine water	0,2025 mg/kg	Factors Evaluation
	Alluvial material fresh water	2.025 mg/kg	Allocation balance
	Fresh Water	0.042 mg/l	Factors Evaluation
	Urban waste water treatment plant	4 mg/l	Factors Evaluation

8.2 Exposure controls

Engineering controls

When handling chemicals, the recommended protective measures must be taken into account. Wash hands before during breaks and at the end of work.

Personal protective equipment

Eye/face protection

Protective goggles which affixes perfect. Shield for the person. Use equipment for eye protection tested and approved in accordance with the appropriate standards of governments, as NIOSH (USA) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be examined before use. Use proper technique for removing the glove (without touching the outer surface of the glove) so as to avoid skin contact with this product. Discard the contaminated gloves after use, according to the current legislation and the good laboratory practice. Wash and dry hands

Gloves that are used must comply with the requirements of EU Directives 89/689/EEC and the standard EN 374 resulting from this.

Full track material: nitrile rubber Minimum Thickness layer: endurance times: 480 min

Contact with droplets Material: nitrile rubber Minimum Thickness layer: endurance times: 480 min

In case of use in solution or mixture with other substances and in conditions which differ from those of the 374, you must contact the supplier of gloves, which are approved by EC. This recommendation is only advisory and must be evaluated by the security manager who should be familiar with the specific circumstance that affects the expected usage from our customers. Should not be interpreted that it is approved for each circumstance.

Body protection

Full clothing protection from chemical, the type of protective equipment must be selected according to the concentration and quantity of dangerous substances in the workplace.

Respiratory protection

When the risk assessment shows that it would be appropriate to use respirators, use full face snorkeling with versatile combination (US) or replacement filters ventilator type ABEK (EN 14387) as an alternative of engineering control elements. In the event that the ventilator is the only protection, use full face snorkeling with independent air flow. Use respirators and ingredients tested and approved by government standards such as NIOSH (US) or CEN (EU).

Checking the environmental exposure

Prevent the further leakage and dissipation, if this is possible without risk. Do not flush into surface water or sanitary sewer system. The deputation in environment must be avoided.

Section 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

A) View	Format: liquid
B) Odour	Characteristic
C) Odour Threshold	There are no elements.
D) PH	12.5 ± 0.5
E) Melting/freezing point	There are no elements.
F) Initial boiling point and boiling range	There are no elements.
G) Flashpoint	Not self-igniting
H) Evaporation Rate	There are no elements.
(i) Flammability (solid, gas)	Not self-igniting
J) Senior/ thresholds 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	Full
O) Partition coefficient: n-octanol/water	There are no elements.
P) Temperature Spontaneous ignition	There are no elements.
Q) Temperature Decomposition	There are no elements.
R) Viscosity	There are no elements.
S) Explosive properties	Not applicable
T) Oxidizing properties	Not applicable

9.2 Other safety information

There are no elements.

Section 10: Stability and reactivity

10.1 Reactivity

There are no elements.

10.2 Chemical stability

Fixed under recommended storage instructions.

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

There are no elements. In case of fire: see chapter 5

Section 11: Toxicological information

11.1 Information on toxicological effects

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT

Direct toxicity

Oral LD-50

1780 mg/kg (No guidelines were followed.)

Dermal LD-50

There are no data available

Inhalation LC50

According to information (ethylenediaminetetraacetic acid disodium salt): 1000 < 4- h-LC50 < 5000 mg/m³ (similar to: OECD 403)

Irritation

Skin

Non-irritating (OECD 404)

Eyes

Eye irritating (similar to: OECD 405)

Breathing

Non-irritating (based on: acute inhalation test) (OECD 403)

Sensitization

According to information (ethylenediaminetetraacetic acid disodium salt):

No sensitization (OECD 406)

Genotoxicity

According to information (hydroethylenediaminetriacetic acid of trisodium citrate):

Ames test: Negative (OECD 471).

Chromosome Aberration Test: Negative (OECD 473).

Test lymphoma of Mouse: Negative (OECD476).

Test micronucleus test on animals: Negative (OECD 474).

Chronic toxicity / carcinogenicity

Oral:

According to regulations (ethylenediaminetetraacetic acid disodium salt):

90-DAY NON-noticed consequences: 500 mg/kg (general signs of toxicity - No guidelines were followed.)

According to regulations (hydroethylenediaminetriacetic acid of tricitrate):

104 week non-noticed consequences \geq 500 mg/kg (No guidelines were followed.).

Inhalation:

According to junction of information (ethylenediaminetetraacetic acid disodium salt):

5-day Lowest observable adverse effect concentration (LOAEC): 30 mg/m³ (respiratory tract pathology) (OECD 412).

Reproduction toxicity:

According to junction of information (ethylenediaminetetraacetic acid, calcium disodium-complex):

Oral, NOAEL play: ≥ 250 mg/kg (-in followed guideline).

According to junction of information (several EDTA compounds): developmental effects seen at high oral doses only. NOAEL development: not found (No guidelines were followed.).

Neurotoxicity test: There is no other specific information available.

Other toxicological information

Chronic toxicity (dermal): No data available.

Additional Information

The material is extremely destructive to tissues of mucous membranes and the upper respiratory street, the eyes and skin.

Regards the ingredient Cocoamidopropyl Betaine

Significant prices classification-LD/LC50
Oral LD50 2335 mg/kg (rats)
From the skin LD50 >2000 mg/kg (rats)

Initial irritating action:

Skin: strong oxidizing effects on the skin and the mucous membranes.

Eyes:

Strong oxidizing effects

Intense irritation and serious risk of damage to the eyes.

Sensitization: none

Supplementary toxicological information:

The product, according to the calculation of the general guidelines for classification of EC for mixtures, as described at the last version, presents the following risks:

Corrosive

Irritating

In case of ingestion causes burns to the mouth and pharynx and risk drilling esophagus and stomach.

Toxicokinetics, metabolism and distribution is not classified.

Public sensitization: No sensitization.

Repeated dose toxicity

NOAEL of oral) of the active substance: 300 mg/kg bw/day

Not classified.

Impact CMR (carcinogenicity, mutagenicity and reproductive toxicity)

No known significant result or critical risk.

Acute toxicity

Product name/ ingredients	Result	Species	Dose
Sulfonic acids, C14-16 (even numbered)- alkane hydroxy and C14-16 (even numbered)- alkene, sodium salts	LC50 inhalation vapors	Rat	>52 mg/l
	LD50 dermal	Rabbit	6300 to 13500 mg/kg
	LD50 oral	Rat - Man, Woman	2079 mg/kg

Conclusion/ Summary: No data are available.

Skin irritation/corrosion

Product name/ ingredients	Result	Species	Dose
Sulfonic acids, C14-16 (even numbered); Alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	Skin irritating	Rabbit	-
	Eyes - High risk of irritation	Rabbit	-

Conclusion /Summary

Skin : Based on test results, active ingredient of this product (active matter in water):

- For concentrations < 5% does not cause skin irritation (Hazard category: not classified)
- For concentrations > 5% causes skin irritation (Hazard category: skin irritating cat. 2/H315)

Eyes : Based on test results, active ingredient of this product (active matter in water):

- For concentrations < 5% does not cause eye irritation or serious eye damage limitation (Hazard category: not classified)
- For concentrations > 5% and < 38% causes eye irritation (Hazard category: Eye irritating cat.2/H319)
- For concentrations > 38% causes serious eye damage limitation (Hazard category: Eye damage limitation cat.1/H318)

Respiratory system : No data are available.

Sensitizing substance

Product name/ ingredients	Route of exposure	Type	Result
Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	Skin	Indian piglet	It does not cause sensitization.

Conclusion/Summary

Skin : It does not cause sensitization.

Breathing : No data are available.

Mutagenicity

Product name/ ingredients	Test	Experiment	Result
Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	OECD 471 bacterial reverse mutation test	Experiment: In vitro	Negative
	OECD 473 <i>In vitro</i> mammalian chromosomal aberration test	Subject: bacteria Experiment: In vitro Subject: Mammal- Animal	Negative

Conclusion/Summary: No data available.

Carcinogenicity

Conclusion/Summary: No data available.

Dynamic of teratogenicity

Product name/ ingredients	Result	Type	Dose	Exposure
Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	Negative - Oral	Rabbit	2 mg/kg NOAEL	

Section 12: Ecological information

12.1 Toxicity

ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT

Ecotoxicological information

Ethylenediaminetetraacetic acid, tetrasodium salt: not dangerous for the environment.

PBT or vPvB: not.

Fish

According to junction of information (several EDTA compounds):

Lepomis macrochirus, 96- h-LC50 > 1000 mg/l (No guidelines were followed.)

According to junction of information (ethylenediaminetetraacetic acid, calcium disodium-complex):

Brachydanio rerio, 35-Day: Concentration of non-noticed level of effects (NOEC) \geq 25.7 mg/l (OECD 210)

Daphnia

According to junction of information (ethylenediaminetetraacetic acid disodium salt):

Daphnia magna, 48- h-EC50: 140 mg/l (DIN 38412, 11)

According to junction of information (ethylenediaminetetraacetic acid disodium salt):

Daphnia magna, 21-Day: Concentration of non-noticed level of effects(NOEC): 25 mg/l (Guideline: EC XI/681/86, Draft: 4)

Seaweed

According to junction of information (ethylenediaminetetraacetic acid, complex ferrous sodium):

Desmodesmus subspicatus and Pseudokirchnerella subcapitata, 72- h-EC50 > 300 mg/l (OECD 201)

Bacteria

According to junction of information (ethylenediaminetetraacetic acid disodium salt):

30-OJ 1976 EC20 > 500 mg/l (OECD 209)

PBT or vPvB: Not

Luck

Abiotic Decomposition

Time of half-life: 20 days. It is expected to be resistant to hydrolysis.

Biotic Decomposition

Bioconcentration

Lepomis macrochirus, flow through, 28-Day, 1< Factor bioconcentration factor (BCF) <2 (No guidelines were followed.)

12.1 Toxicity

Product name/ ingredients	Result	Type	Exposure	Test
Sulfonic acids, C14-16 (even Numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	Acute EC50 5,2 mg/l	Algae	72 hours	ISO 10253:2006
	Acute EC50 4,53 mg/l	Daphnia	48 hours	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test and Reproduction Test OECD 209 Activated
	Acute IC50 230 mg/l	Micro-organism	3 Hours	Sludge, respiration inhibition test OECD 203 fish, Acute Toxicity Test OECD 211 <i>Daphnia magna</i>
	Acute LC50 4,2 mg/l	Fish	96 hours	
	Chronic NOEC 6,7 mg/l	Daphnia	21 days	

12.2 Persistence and degradability

Product name/ ingredients	Test	Result
Sulfonic acids, C14-16 (even Numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	OECD 301B Ready biodegradability - CO2 Evolution Test	>60 % - Directly - 28 days
	OECD 306 Biodegradability in seawater	>60 % - Directly - 28 days

Conclusion/Summary

Product name/ ingredients	Half life in water	Photolysis	Biodegradability
Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts			Directly

12.3 Bioaccumulative potential

Product name/ ingredients	LogPow	BCF	Potential
Sulfonic acids, C14-16 (even numbered)- alkane hydroxy and C14-16 (even numbered)- alkene, sodium salts	-1.3	70,8	Low

Regards the ingredient Cocoamidopropyl Betaine

12.1 Toxicity

Aquatic toxicity	
EC10	0.135 mg/l (freshwater fish)
LC50 (static)	1,9 mg/l (freshwater invertebrates)
	1,11 mg/l (freshwater fish)

12.2 Persistence and degradability

Easily biodegradable according to the guideline OECD 301 B, OECD 301C, OECD 301 D and OECD 301F.

12.3 Bioaccumulative potential Low

12.4 Mobility in soil: It is dissolved easily in water and is easily biodegradable.

Further ecological indications:

General instructions:

Dangerous for the aquatic environment - Class 1 (our estimation): slightly dangerous

It is not allowed to penetrate to the earthy waters, be emptied into the aquatic environment or in the sewer undiluted or in relatively large quantities.

It is not allowed to be emptied undiluted or non-neutralized to the liquor i.e. in cesspits.

The escape of large quantities in channel grid, drains or in water resources may lead to an increase of pH.

Increased pH values harm aquatic organisms.

12.5 Results of PBT and vPvB assessment

PBT: Not classified.

vPvB: Not classified.

12.6 Other negative effects

There is no other relevant information available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Residues and non-recyclable solutions delivered to recognized company waste treatment.

Contaminated packagings (packages)

Discarded as unused product.

Section 14: Transport information



14.1 UN Number

ADR/RID: - IMDG CODE: - IATA: -

14.2 Proper shipping name

ADR/RID: ALKALINE SOLUTION

IMDG CODE: ALKALINE SOLUTION

IATA: ALKALINE SOLUTION

14.3 Transport hazard class

ADR/RID: 8

IMDG CODE: 8

IATA: 8

14.4 Packing Group

ADR/RID: II

IMDG CODE: II

IATA: II

14.5 Environmental hazards

ADR/RID: not

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

There are no elements.

Section 15: Regulatory information

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

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

There are no elements.

15.2 Chemical safety assessment

There are no elements.

Section 16: Other Information

For full text of H-phrases mentioned below, see sections 2 and 3.

H314: Causes severe skin burns and eye damage

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

Skin Corr./Irrit. Skin Corrosion/Irritation

Eye Dam. /Irrit. Serious eye damage/irritation

Acute Tox. Acute toxicity

Further Information

The above information is considered to be correct but does not include all the items and it cannot be used as a guide. The information in this document are based on current knowledge but it cannot be considered as a guarantee for quality specification of the product.