

# Safety data sheet

(Reg. CE 1907/2006, art. 31, in compliance with Reg. CE 453/2010)

## 1) Company and product identification

Product identification: **Gastro Eco Clean - Eco Cream 014**

Miscela di sostanze registrate ai sensi del Reg. CE 1907/2006

Identified use of the substance or mixture / not recommended use: Professional hard surface  
Detergent. Biodegradable.

Information on the safety data sheet supplier:

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(Poison control department University Hospital Careggi)

Telephone +39 **055.794.7819**

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Contact e-mail: [cav@ao-careggi.toscana.it](mailto:cav@ao-careggi.toscana.it)

## 2) Hazards identification

*Mixture classification*


Pictograms	GHS07
Warnings	Caution
Hazard classification and danger category	Serious eye damage / eye irritation Category 2
Hazard statements	H319 – Causes serious eye irritation

The mixture classification is based on the outcome from various tests, which have been carried out.



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*Label elements*

<b>Pictogram GHS07</b> 	<b>Warning</b> Caution
	<b>Hazard classification code and category</b> Serious eye damage / eye irritation Category 2
	<b>Hazard statement</b> H319 – Causes serious eye irritation
<b>Prevention statements</b>  Prevention: P264 – Wash hands thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection. Reaction: P305+P351+P338 – If in eyes: Rinse carefully with water for several minutes. Remove contact lenses if possible – continue rinsing. P337+P313 - If eye irritation persists seek medical advice/attention	

*Other hazards*

The mixture does not meet the requirements for PBT or vPvB in compliance with annex XIII. No information on other hazards

**3) Composition and information on ingredients**

Num. CAS	Num. EINECS	Registration n.	Substance	EC Regulation classification 1272/2008	Conc.
137-16-6	205-281-5	n.a.	Sodium N-lauryl Sarcosinate	Skin Irrit. 2 - H315 Eye Dam. 1 – H318 Acute Tox. 2 - H330 Harzard	1÷3%
73296-89-6	277-89-6	01-2119489464-26	Sulfuric acid, mono-C16 - C12-alkyl esters, sodium salts	Skin Irrit. 2 – H315 Eye Dam. 1 – H318 Aquatic Chronic 3 – H412 Harzard	1÷3%
68891-38-3	500-234-8	01-2119488639-16-x	Alcohols, C12-14, ethoxylates,	Skin Irrit. 2 – H315 Eye Dam. 1 – H318 Harzard	1÷3%

The complete text of the hazard statements (H) is found in section 16 of this safety data sheet.



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#### 4) First aid measures

##### Description of first aid measures

**eyes** Immediately rinse raised eye lid with water or saline solution for at least 15 minutes. Remove contact lenses, if it is possible. Continue rinsing.

**skin** Wash thoroughly with water

**inhalation** no first air measure should be required

**ingestion** **do not induce vomiting.** Rinse out the mouth and remove all product residue.  
Seek medical help or contact a poison control centre.

##### Main symptoms and effects, both serious and related to

**eyes** The direct contact may cause irritation

**skin** The direct contact may cause a mild irritation, the prolonged contact may cause rashes.  
A pre-existing dermatitis can cause more serious effects.

**inhalation** Vapour inhalation may cause mild irritations

**ingestion** With normal use, the danger of ingestion is low and the symptoms are not known.  
Ingesting the product may cause nausea, vomiting and diarrhea.

**Cronic effects** None known

##### Indication of the possible necessity to seek immediate medical help or special treatments

In case of contact with eyes, if the irritation persists, seek medical help.

#### 5) Fire-fighting measures

This product is not inflammable.

**Recommended extinguishers:** water, CO<sub>2</sub>, foam and dust.

**Special hazards deriving from this substance or mixture:** none

##### Recommendations for workers in charge of extinguishing fires:

Use of adequate fire-fighting equipment and protection;  
Protection of the respiratory tract  
Cooling of containers during the fire



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## 6) Accidental release measures

### **Personal precautions, emergency protection devices and procedures**

*For those, who do not intervene directly:*

Move away from the area surrounding the leakage.

*For those intervening directly:*

Collect the released product using personal protection devices.

### **Environmental precautions**

After the product has been collected, wash the contaminated area with water, paying particular attention to preventing the product from entering into the sewer system.

If the product has entered a waterway, the sewer system or has contaminated the soil, inform the relevant authorities.

Do not put the leaked product back into the original container.

Do not use the leaked product.

### **Methods and materials for containment and reclamation**

Collect the product using sand, bentonite or another inert absorbing material, to first contain the leakage then cover the rest of the product released.

Store the collected product in suitable containers for it to be disposed of according to regulations.

### **Reference to other sections**

Please see sections 8 and 13

## 7) Handling and storage

### **Precautions for safe handling**

Avoid bumping, dropping, incorrect handling that might cause the product to leak. Avoid contact with eyes and skin.

Avoid exposure to high temperature, flames and sparks. During work, do not eat or drink.

### **Conditions for safe storage including possible incompatibilities**

Store in original containers, keeping them well sealed in a cool and dry place. Keep away from sources of heat and flames

### **Specific end use**

Handle with caution

Store in a well ventilated place and away from sources of heat. Keep the container well sealed.



## 8) Exposure controls / personal protection

### Control parameters

Professional exposure limits: not available for any of the components in the mixture.

Sodium N-lauryl Sarcosinate

DNEL: Workers - inhalation: systemic effects – long-term exposure 5 mg/m<sup>3</sup>

Workers- inhalation: localized effects – long-term exposure 5 mg/m<sup>3</sup>

Population - inhalation: systemic effects - long term exposure 5 mg/m<sup>3</sup>

Population – inhalation: localized effects-long term exposure 5 mg/m<sup>3</sup>

Population – oral: systemic effects – long term exposure 0.15 mg/kg bw/day

Sulfuric acid, mono-C12-C16-alkyl esters, sodium salts

DNEL: Workers - inhalation: systemic effects – long term exposure 285 mg/m<sup>3</sup>

Workers – dermal: systemic effects – long-term exposure 4060 mg/kg bw/day

Population – inhalation: systemic effects -long term exposure 85 mg/m<sup>3</sup>

Population – dermal: systemic effects – long-term exposure 2440 mg/kg bw/day

Population – oral: systemic effects – long-term exposure 24 mg/kg bw/day

Alcohols, C12-14, ethoxylates, sulphonates, sodium salts

DNEL: Workers - inhalation: systemic effects – long term exposure 175 mg/m<sup>3</sup>

Workers – dermal: systemic effects – long-term exposure 2750 mg/kg bw/day

Population – inhalation: systemic effects -long term exposure 52 mg/m<sup>3</sup>

Population – dermal: systemic effects – long-term exposure 1650 mg/kg bw/day

Population – oral: systemic effect – long term exposure 15 mg/kg bw/day

### Exposure control

*Adequate technical controls*

Open the container with caution.

Secure the container after use.

*Personal protection measures, required personal protection devices*

Eye and face protection

The use of safety glasses to protect eyes from possible product spillages during product shipment  
Symbol 3 (UNI EN 166)

Skin protection

Wear gloves to protect against chemical substances:  
Minimum performance index 2; permeation protection index no lower than class 4;  
polychloroprene material (CR;  $\geq 1$  mm thickness) or natural latex (NR;  $\geq 1$  mm thickness)  
If there are signs of wear, gloves must be replaced (EN 374 e EN 420)

Protection of the respiratory tract  
thermal hazards

not required in normal use conditions  
not necessary

Controls to environmental exposure  
and drinks.

use in adequately ventilated rooms. Keep away from food



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### 9) Physical and chemical properties

Aspect	viscous liquid
Odour	odourless
Odour threshold	n.a.
PH:	4
Freezing point	n.a.
Boiling point:	n.a.
Flashpoint	n.a.
Evaporation rate:	lower than alcohol's
Flammability	non-inflammable
Lowest inflammab. limit.	n.a.
Highest inflamm. limit.	n.a.
Vapour pressure	n.a.
Vapour density:	n.a.
Relative density:	1.01-1.05
Solubility	soluble in water
coefficient <i>n</i> -octanol-water	n.a.
Auto ignition temperature	n.a.
Decomposition temperature	n.a.
Viscosity:	n.a.
Explosive properties	n.a.
Oxidizing properties	n.a.

### 10) Stability and reactivity

Reactivity	no reactivity risk
Chemical stability	this product is stable in use conditions
Possibility of dangerous reactions	no dangerous reactions expected
Conditions to be avoided	no condition to be reported
Dangerous polymerizations:	not subject
Incompatible materials	do not come into contact with strong oxidants
Dangerous decomposition products	in case of presence in a fire, products such as carbon oxide and nitrogen oxides (NO <sub>x</sub> ) may develop

### 11) Toxicological information

Details concerning contained substances

Sodium N-lauryl Sarcosinate

Acute toxicity: LD50 oral >5000 mg/kg; LC50 inhalation 0.05-0.5 mg/L air;

Irritation: irritating to eyes

Corrosivity: non-corrosive

Sensitization: non-sensitizing

Repeated dose toxicity: no effect



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Carcinogenicity: no data  
Mutagenicity: negative  
Reproductive toxicity: no data

Sulfuric acid, mono-C12-C16-alkyl esters, sodium salts  
Acute toxicity: not classified  
Irritation: irritating to the skin; irritating to the eyes  
Corrosivity: non-corrosive  
Sensitization: non-sensitizing  
Repeated dose toxicity: NOAEL  $\geq$  430 mg/kg bw/day  
Carcinogenicity: not carcinogen  
Mutagenicity: negative  
Reproductive toxicity: no data

*Alcohols, C12-14, ethoxylates, sulphonates, sodium salts*  
Acute toxicity: non-toxic  
Irritation: irritating to the skin; irritating to the eyes  
corrosivity: non-corrosive  
Sensitization: non-sensitizing  
Repeated dose toxicity: no effect  
Carcinogenicity: no data  
Mutagenicity: negative  
Reproductive toxicity: no data

## 12) Ecological information

Data concerning the contained substances

Sodium N-lauryl Sarcosinate

Toxicity:

PNEC aqua (freshwater): 0.0297 mg/L  
PNEC aqua (marine water): 0.003 mg/L  
PNEC aqua (intermittent releases): 0.297 mg/L  
PNEC STP: 10 mg/L  
PNEC sediment (freshwater): 0.034 mg/kg sediment dw  
PNEC sediment (marine water): 0.0034 mg/kg sediment dw  
PNEC soil: 0.012 mg/kg soil dw

Persistence and degradability: biodegrades rapidly in water (82% in 28 days)

Bioaccumulation potential: no data

Mobility in soil:  $k_{oc} > 316$  e  $< 446$  a 25°C

PBT and vPvB assessment results: this substance is not PBT/vPvB

Other adverse effects: -

Sulfuric acid, mono-C12-C16-alkyl esters, sodium salts

Toxicity:

PNEC aqua (freshwater): 0.0958 mg/L  
PNEC aqua (marine water): 0.0096 mg/L



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PNEC aqua (intermittent releases): 0.013 mg/L  
PNEC STP: 6.8 mg/L  
PNEC sediment (freshwater): 3.37 mg/kg sediment dw  
PNEC sediment (marine water): 0.337 mg/kg sediment dw  
PNEC soil: 0.616 mg/kg soil dw

Persistence and degradability: biodegrades rapidly in water (100% in 28 days)

Bioaccumulation potential: no data

Mobility in soil:  $k_{oc} > 1337$  e  $< 1567$  a 25°C

PBT and vPvB assessment results: this substance is not PBT/vPvB

Other adverse effects: -

*Alcohols, C12-14, ethoxylates, sulphonates, sodium salts*

Toxicity:

PNEC aqua (freshwater): 0.24 mg/L  
PNEC aqua (marine water): 0.024 mg/L  
PNEC aqua (intermittent releases): 0.071 mg/L  
PNEC STP: 10 mg/L  
PNEC sediment (freshwater): 5.45 mg/kg sediment dw  
PNEC sediment (marine water): 0.545 mg/kg sediment dw  
PNEC soil: 7.5 mg/kg soil dw

Persistence and degradability: biodegrades rapidly in water (100% in 28 days)

Bioaccumulation potential: no data

Mobility in soil: no data

PBT and vPvB assessment results: this substance is not PBT/vPvB

Other adverse effects: -

### 13) Disposal considerations

To be disposed of as special waste or as special waste assimilated to urban waste if the Municipality allows it (D.Lgs. 152/1999).

Do not reuse empty containers without having thoroughly cleaned them.

Do not release empty containers into the environment.

### 14) Transport information

**UNO number:** not present in the list of UNO numbers

**UNO shipping name:** -

**Hazard classification connected to transport:** -

**Packaging group:** -

**Hazards for the environment:** -

**Special precautions for users:** -

**Bulk transport according to annex II of MARPOL 73/78 IBC code:** no break bulk transport





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## 15) Regulatory information

**Health, safety and environment regulations and legislation specific for this substance or mixture:** This product is compliant with Regulation EC 648/2004 and subsequent changes and integrations. This product is subject to labeling and classification set out in Regulation EC 1272/2008 (CLP).

### Assessment of chemical safety

No chemical safety assessment has been carried out.

## 16) Other information

With regard to the previous issue, the following changes have been made:

- Classification data according to Reg. 1278/2012/EC with regard to mixtures have been added
- Data on old classifications have been deleted
- Toxicity data of substances according to registration dossier have been updated

Abbreviations used:

- The term DNEL in chapter 8 means Derived No-Effect Level. It indicates the exposure level below which no negative effects on man occur and therefore represents the level beyond which people **MUST NOT** be exposed to a certain chemical substance.
- The term NOAEL in chapter 11 means No Observed Adverse Effect Levels. The highest dose level that does not produce a toxic effect.
- The term PNEC used in chapter 12 means Predicted no effect concentration. It is an Indicator of the environmental concentration that should not yield negative effects on living organisms in the environment. Also the potential effects on the microbiological activity of waste treatment are taken into account.
- The term PBT used in chapter 12 means Persistent, Bio-accumulative and Toxic, i.e. substances with persistent, bio-accumulative toxic characteristics.
- The term vPvB used in chapter 12 means Very persistent very bio-accumulant

Main reference literature and sources of data:

- Website of the European Chemical Agency <http://echa.europe.eu>

La classificazione è stata effettuata in base ai dati di tutti i componenti della miscela.

Description of the hazard statements found in point 3

- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H330 - Fatal if inhaled
- H412 - Harmful to aquatic life with long-lasting effects