

# MATERIAL SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 (REACH)

Trade name: STEFES Stainless Steel

Version: 1.0 / EN

Date of impression: 2018-06-20 Date of revision: 2018-06-20

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

1.1 **Product identifier/** STEFES Stainless Steel

1.2 **trade name:**

**Relevant identification of the substance or mixture and the uses advised against**

**Relevant identified use**

Cleaner

1.3 **Company/undertaking Identification:** STEFES GmbH  
Wendenstr. 21 b  
D-20097 Hamburg  
Phone: +49 (40) 53308330  
Fax: +49 (40) 533083329  
[info@stefes.eu](mailto:info@stefes.eu)

1.4 **Emergency phone (24 hours):** Giftinformationszentrum Mainz: 06131-19240

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classified as hazardous according to the criteria of Regulation (EC) No 1272/2008 [CLP]**

This mixture meets the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### Health hazards:

H318 - Causes serious eye damage

### 2.2 Label

Identification according to Regulation (EC) No 1272/2008 [CLP]

#### Hazard Pictograms



GHS05 Caustic effect

Signal word: **Warning**

#### Hazard statements

H318 Causes serious eye damage

#### Precautionary Statements

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

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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+ P338 present and easy to do. Continue rinsing  
 P391 Collect spillage  
 P501 Dispose of contents/container to local regulations

## 2.3 Other hazards

No information available

## Section 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Chemical characterisation

Mixture (preparation)

#### Hazard ingredients

Chemical name	Konzentration %	CAS-Nummer EG-Nr.	Classification: Regulation (EG) 1272/2008
Tridecyl Alcohol Ethoxylate	1 - 1,5	24938-91-8	Eye Dam. 1, H318 Acute Tox. 4 H302
Coca/Soya Fatty Acid Quaternized	1 - 1,5	68604-75-1	Acute Tox. 4 H302 Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 3, H412

#### Remark:

For the full text of the H-Statements mentioned in this section, see section 16.

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove affected persons from danger zone. Remove contaminated clothing immediately and dispose it safely. Ensure, that medical personnel is aware of the material(s) involved, and take precautions to protect themselves.

#### Inhalation

Bring affected persons to fresh air and place in a resting position. If symptoms persist, consult a physician.

#### Skin contact

Take off immediately all contaminated clothing. Wash skin immediately with plenty of water for min. 10 minutes, followed by soap and water. If symptoms persist, consult a physician.

#### Eye contact

Flush eyes thoroughly with water for min. 15 minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If eye irritation persists, consult a physician, preferably an ophthalmologist.

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## Ingestion

Rinse mouth with water. Call a POISON CENTER or doctor if symptoms / complaints occur. If ingestion of a large amount does occur, call a poison control centre immediately.

## Self-protection of first-aider

Consider self-protection of first-aider. Only if own safety is guaranteed can life-saving emergency measures be taken. Following the rescue chain, the emergency call takes places. Until the arrival of the rescue service, the first-aider should take further measurements. These include, for example, the further care as well as mental health care of the person affected.

## 4.2 Most important symptoms and effects, both acute and delayed

Direct contact with eyes may cause temporary irritation.

## 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

## Section 5: Fire-fighting measures

### General fire hazards

No unusual fire or explosion hazards noted. Non-combustible, substance itself does not burn.

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, dry chemical powder, foam, Carbon dioxide (CO<sub>2</sub>)

#### Extinguishing media which must not be used for safety reasons

It must not be used a massive jet of water, because it spreads the fire.

### 5.2 Special exposure hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed. Carbon monoxide, carbon dioxide and other hydrocarbon fragments. Silicone Oxides, hydrochloric acid, volatile amines, nitrogen oxides.

### 5.3 Indications for fire-fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Special methods

Use standard firefighting procedures and consider the hazards of other involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## Section 6: Accidental release measures

### 6.1 Person-related safety precautions, protective equipment and emergency measures

Keep people from / away from the leak / leak. Damaged containers or spilled material. Ensure a sufficient reward. Local authorities should become easy, if considerable fluctuations can not be prevented. For personal protection, see section 8.

#### For non-emergency personnel

Consider precautions protection regulations (see to section 7 and 8). Contact with skin, eyes and clothing must be prevented. Ensure adequate ventilation. Keep ignition sources away.

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## Emergency personnel

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

## 6.2 Environmental protection

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 6.3 Methods for cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## 6.4 Additional information

Information to safety handling, see section 7.

Information to personal protection equipment, see section 8.

Information to disposal considerations, see section 13.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices for proper handling

Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

#### Precautions against fire and explosion

No special measures are necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage facilities and containers

Store in the original container. Keep container tightly closed in a dry, cool and well-ventilated place. Store in a place accessible only to authorized persons.

#### Information on storage with other products

Keep away from food, drinks and animal foodstuffs.

### 7.3 Specific end use(s)

Follow label directions carefully. The specified uses for this material are shown in section 1 of this document.

## Section 8: Exposure controls / Personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limits noted for the ingredients.

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## Biological limit values

No biological exposure limits noted for the ingredients.

## Derived no-effect level (DNEL)

Not available.

## Predicted no effect concentration (PNECs)

Not available.

## Additional information

The following recommendations regarding exposure monitoring/personal protective equipment refer to the manufacture, formulation and bottling of the product. For proper handling and use of this product, see the instructions for use or the label.

## 8.2 Limitation and monitoring of exposure

### 8.2.1 Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### 8.2.2 General protective and hygienic measures

When handling and using this product as directed, follow the instructions on the label. In all other cases, apply the personal protection measures listed. Please follow the usual instructions when dealing with chemicals. Always wear personal protective equipment. Avoid contact with eyes, skin and clothing. Keep away from food, drink and animal foodstuffs. Do not eat, drink or smoke while at work. Store work clothes separately. Wash hands before breaks and immediately after handling the product. Wash hands after handling. Remove contaminated clothing immediately and clean thoroughly before reuse. Remove non-cleanable clothing.

### Eye/Face protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear: Safety goggles.

### Hand protection

Wear appropriate chemical resistant gloves.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

### Body protection

Wear appropriate chemical resistant clothing. Normal work clothing (long sleeved shirts and long pants) is recommended.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## 8.3 Limiting the exposure of end users

### General information

The use of technical measures should always take precedence over personal protective clothing. Wearing of closed

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work clothing is recommended. For handling in consumer packaging, the information on personal protective equipment in the instructions for use apply. Avoid contact with eyes, skin and clothing.

## Information and requirements of the Federal Office for Consumer Protection and Food Safety for the protection of the user

See instructions for use or label.

### 8.2.2 Environment exposure control

Avoid release to the environment. Contain spills and prevent releases and observe national regulations on emissions. Inform appropriate managerial or supervisory personnel of all environmental releases.

## Section 9: Physical and chemical properties

Physical state:	Liquid
Color:	Off white to yellowish cream.
Odor:	Mild
pH:	4,5-7
Melting point/freezing point:	Not available
Flashpoint:	>93,3°C
Boiling point:	~100 °C
Evaporation rate:	Not applicable
Flammability(solid/gas):	Not applicable
Flammability limit-lower (%):	Not applicable
Flammability limit upper (%):	Not applicable
Vapour pressure:	Similar to water
Vapour density:	> 1
Relative density:	0.97 – 1.01
Solubility (water):	Miscible
Solubility (others):	Not available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Density:	Not available
Viscosity:	2000-8000cps Brookfield
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
Percent volatile:	Not available

### 9.2 Other information

Other safety-related physical-chemical data are unknown.

## Section 10: Stability and reactivity

### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled under normal conditions of use.

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## 10.4 Conditions to avoid

Contact with incompatible materials.

## 10.5 Incompatible materials

Strong oxidizing and strong acids.

## 10.6 Hazardous decomposition products

No hazardous decomposition products are known under normal conditions.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

Occupational exposure to the substance or mixture may cause adverse effects. Incomplete toxicological data are available for this product.

#### 11.1.1 Acute oral toxicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.2 Acute dermal toxicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.3 Acute inhalation toxicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.4 Sensitization of Skin/respiratory protection

Due to partial or complete lack of data the classification is not possible.

#### 11.1.5 Skin corrosion

Due to partial or complete lack of data the classification is not possible.

#### 11.1.6 Eye corrosion

Due to partial or complete lack of data the classification is not possible.

#### 11.1.7 Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.8 Carcinogenicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.9 Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.10 Developmental toxicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.11 Specific target organ systemic toxicity

Due to partial or complete lack of data the classification is not possible.

#### 11.1.12. Repeated dose toxicity and specific target organ toxicity (repeated exposure)

Due to partial or complete lack of data the classification is not possible.

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## 11.1.13 Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

## Section 12: Ecological information

### 12.1 Toxicity

No data is available

### 12.2 Mobility in soil

No data available.

### 12.3 Persistence and degradability

No data available on the degradability of this product.

### 12.4 Bioaccumulation potential

#### Partition coefficient

#### n-octanol/water (log K<sub>ow</sub>)

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this mixture.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Do not dispose product residues in the household waste but deliver them in their original packaging in the hazardous waste disposal of your place of residence. Product may be taken to a landfill or incineration plant in compliance with applicable regulations and, where appropriate, after consultation with the disposal company or the competent authority. Do not reuse empty packaging. Empty and carefully rinsed packaging with the PAMIRA brand must be returned to the authorized collection points of the PAMIRA disposal system with separate closure. For information on when and where to find the collections, contact your local dealer, the regional press or the Internet at [www.pamira.de](http://www.pamira.de).

#### 13.1.1 European waste classification

No data available.

## Section 14: Transport information

### 14.1 Land transport (ADR/RID)

Not classified as dangerous goods.

### 14.2 Inland waterway transport (ADN)

Not classified as dangerous goods.

### 14.3. Sea transport (IMDG/IMO)

Not classified as dangerous goods.



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## 14.4 Air transport (IATA/ICAO)

Not classified as dangerous goods.

## 14.5 Special precautions for user

See section 6 and 8.

## 14.6 Transportation in bulk according to Annex II of MARPOL73/78 and IBC Code

No bulk transport according IBC Code.

## Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorization)

Based on available data and / or according to the data supplied by the subcontractors, the product does not contain any substance (s) deemed to be a substance (s) subject to authorization in accordance with Regulation (EC) No 1907/2006 (REACH) Annex XIV. be valid.

REACH Candidate List of Substances of Very High Concern (SVHC) for the approval process

According to the available data and / or as supplied by the subcontractors, the product does not contain any substance (s) classified under Article 57 in conjunction with Article 59 of REACH Regulation (EC) No 1907/2006 for inclusion in the Annex XIV (list of substances subject to authorization) is / are applicable.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Based on available data and / or according to the data of the previous suppliers, the product does not contain any substance (s) subject to Regulation (EC) No 1907/2006 (REACH) Annex XVII.

Regulation (EC) No 2037/2000 on substance that deplete the ozon layer, Annex I and II

Not listed.

Regulation (EC) No 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals, Annex 1, part 1-3, Annex V Not listed.

Regulation (EC) No 166/2006 Pollutant release and transfer registry

Not listed.

Directive 2004/37 EC on the protection of workers from the risk related to exposure to carcinogens and mutagens at work.

Not regulated.

Directive 95/85/EEC on protection of the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.

Not regulated.

Directive 2012/18/EC on the control of major-accident hazards involving dangerous substances.

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Always applicable.

Directive 94/33/EC on the protection of young people at work.

Not listed.

### 15.1.2 National Regulation

To avoid risks to humans and the environment, the instructions for use must be observed.

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## 15.2 Safety assessment

A chemical safety assessment has not been performed for this substance.

## Section 16: Other information

### 16.1 Wording of the H-phrases referred to in Section 3:

The mixture is classified on the basis of the available hazard data of the ingredients as defined in the classification criteria for mixtures for each hazard class in Annex I to Regulation (EC) No 1272/2008.

Acute Tox.	Acute Toxicity.
Eye Dam.	Serious eye damage
Skin Irrit.	Irritating reaction of the skin.
Aquatic Chronic	Chronic aquatic Toxicity.

H302	Harmful if swallowed
H315	Causes skin irritation.
H318	Causes serious eye damage. H319 Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Disclaimer

All information is based on our present knowledge and refer to the product in the form ready for use. The information is intended as a guidance for safe handling of the product and does not guarantee a product within the meaning of a technical specification. There are no conditions for the use of the product under the control of the manufacturer, the liability for the safe use of the product transferred to the user.

The client is requiring all employees who have contact with the product, learn about the hazards and personal protection measures in accordance with the MSDS.

The sheet was prepared based on the Material Safety Data Sheets of raw materials, as components of the preparation, as well as bibliographic databases and regulations relating to hazardous substances and chemical preparations.

People who are involved in the marketing of the product, according to schools in relation to the procedure, safety and hygiene. The drivers are trained to the corresponding certification in accordance with the requirements of the ADR regulations shall be issued.