

MATERIAL SAFETY DATA SHEET

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

Trade name: STEFES Power Degreaser

Version: 1.0 / EN

Date of impression: 2018-04-24 Date of revision: 2018-04-24

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

- 1.1 Identification on the label/
trade name:** STEFES Power Degreaser
- 1.2 Use of the substance/
preparation:** Cleaner
- 1.3 Company/undertaking
Identification:** STEFES GmbH
Wendenstr. 21 b
D-20097 Hamburg
Tel: +49 (40) 53308330
Fax: +49 (40) 533083329
info@stefes.eu
- 1.4 Emergency phone (24 hours):** 0870-600-6266 [UK National Poisons Control Information Service (NPIS) Centre]

Section 2: Hazards identification

2.1 Hazards description:

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

Health hazards:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

2.2 Label:

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

Hazard pictogram



GHS05 Danger



GHS07 Attention

Signal word: **Attention**

Hazard Statements

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary Statements

P264 Wash working surfaces thoroughly after handling.

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

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| | |
|-----------------------|--|
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container to local regulations |

EU Specific Hazard Statements

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

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 | Concentration % | CAS-Number EG-No. | Classification: Regulation (EG) 1272/2008 |
|--------------------------|-----------------|----------------------|--|
| Fatty alcohol Ethoxylate | 0,1 – 5,0 | protected | Acute Tox. 4, H302 Eye Irrit 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 |
| Alkylamine Oxides | 0,1 – 5,0 | protected | Acute Tox. 4 H302 Eye Irrit 2, H319 Skin Irrit. 2, H315 Aquatic. Acute 1, H400 Aquatic Chronic 2, H411 |
| Arylethanol | 0,1 - 5,0 | protected | Acute Tox. 4 H302 Eye Irrit 2, H319 |

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.

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In case of inhalation

Bring affected persons to fresh air and place in a resting position. CALL a POISON CENTER or doctor if you feel unwell. If breathing stops: artificial respiration.

In case of skin contact

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

In case of 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.

In case of Ingestion

Rinse mouth with water. Call a POISON CENTER or doctor if you feel unwell. If person is responsive, give few water in small sips.

Self-protection of first-aid

Consider self-protection of first-aid. 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-aid 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

Redness and irritation of the skin, reddening of the eyes, watering eyes, throat and stomach problems.

4.3 Indication of immediate medical attention and special treatment needed

Further medical observation for 48 hours.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Dry chemical powder, Foam, Carbon dioxide (CO₂)

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

No data available.

5.3 Indications for fire-fighting

Do not inhale explosion or incendiary gas. In case of fire: Wear self-contained breathing apparatus. Limit the spread of extinguishing liquids. Do not let firefighting water enter the sewerage system or water courses.

Section 6: Accidental release measures

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

Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment as required.

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For non-emergency personnel

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

Emergency personnel

No data available. For personal protection see section 8.

6.2 Environmental protection

Do not allow to get into sewer system, surface water or ground water.

6.3 Methods for cleaning up

Absorb with liquid-binding material (e.g. inert absorbent chemicals, sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly. Keep in suitable and closed containers for disposal.

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 skin, eyes, and clothing. Store work clothes separately from other clothes. Wash hands before breaks and immediately after handling the product. Shower or bath at the end of work. Remove contaminated clothing immediately and clean thoroughly before reuse. For personal protection see section 8. Use only in area provided with appropriate exhaust ventilation.

Precautions against fire and explosion

No special measures are necessary.

7.2 Storage

Requirements for storage facilities and containers

Store only in original container. Store the product components in a sealed container, in dry and cool places, away from fire and heat sources, as well as direct sunlight. Store in place only accessible to authorized persons. Protect from freezing.

Information on storage with other products

Keep away from food, drink/beverages and animal foodstuffs.

7.3 Specific end use(s)

Follow label directions carefully.

Section 8: Exposure controls / Personal protection

8.1 control parameters

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DNEL and PNEC values

No data 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

If dust, fumes, vapors or mists are generated by user operation, use process enclosures, local exhaust or other clothes.

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 goggles or face shield (according to EN166, use range = 5 or equivalent)

Hand protection

Please contact the glove supplier for further information. Take into account the specific, local conditions under which the product is used, such as cutting risk, abrasion and contact duration. Wash contaminated clothing. If the glove has been damaged or contaminated on the inside, it must be disposed. Hands regularly and always wash before eating, drinking, smoking or going to the toilet. Suitable material: NBR (Nitrile rubber).

Body protection

Wear standard overall and protective suit Category 3 type 4. For the risk of significant exposure, a higher-quality protective suit should be considered. If possible, wear two layers of clothing: Under a chemical protective suit a jumpsuit made of polyester/cotton or pure cotton should be worn. Overalls should be laundered on a regular basis.

Respiratory protection

Personal respiratory protection is not necessary under the intended exposure conditions. Respiratory protection should only be used to control the residual risk of short-term activities, if all practicable hazard reduction measures have been followed at the source of the hazard, e.g. by restraint and/or local. The instructions of the manufacturer of the breathing apparatus regarding use and maintenance must be followed.

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 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.

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8.2.2 Environment exposure control

Take technical measures to prevent environmental contamination, in particular with regard to wastewater.

Section 9: Physical and chemical properties

| | |
|------------------------|--------------------------|
| Physical state: | liquid |
| Color: | colorless – light yellow |
| Odor: | odorless |
| pH: | ~11.6 |
| flashpoint: | >93,3 °C |
| boiling point: | ~100 °C |
| density: | no data |
| water solubility: | soluble in water |
| partition coefficient: | |
| n-octanol/water: | no data |
| Viscosity, kinematic: | no data |
| Surface tension: | no data |
| Explosiveness: | no data |

9.2 Other information

Other safety-related physical-chemical data are unknown.

Section 10: Stability and reactivity

10.1 Reactivity

No information is available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to be avoided

Protect from direct sunlight and extremes of temperature. Protect from frost.

10.5 Incompatible materials

Strong oxidizing and reducing agent.

10.6 Hazardous decomposition products

None under normal use.

Section 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute oral toxicity

Ingredients:

Fatty alcohol ethoxylate: LD50 (Rat) 580mg/kg

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Alkylamine oxides: LD50 (Rat) > 1450 mg/kg

11.1.2 Acute dermal toxicity

Ingredients:

Alkylamine oxides: LD50(Rat) >2000 mg/kg

11.1.3 Acute inhalation toxicity

No data available.

11.1.4 Sensitization of Skin/respiratory protection

No data available.

11.1.5 Skin corrosion

No data available.

11.1.6 Eye corrosion

Product:

Irritant. Not corrosive.

3-55. In Vitro Irritancy Score (IVIS) by Bovine Corneal Opacity and Permeability (BCOP-OECD)

11.1.7 Germ cell mutagenicity

No data available.

11.1.8 Carcinogenicity

No data available.

11.1.9 Reproductive toxicity

No data available.

11.1.10 Developmental toxicity

No data available.

11.1.11 Specific target organ systemic toxicity

No data available.

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

No data available.

11.1.13 Aspiration hazard

No data available.

Section 12: Ecological information

12.1 Toxicity

Ingredients:

Polyalkyl Ammonium Salt (CAS Proprietary)

Toxicity (acute) to fish: LC50 (rainbow trout [Oncorhynchus mykiss])
24 mg/L, exposure time: 96 h

Toxicity (acute) to invertebrates:
water animals EC50 (Great water flea [Daphnia magna])
38.9 mg/L, exposure time: 72 h

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Ingredients:

Alkylamine Oxides (CAS Proprietary)

Toxicity to fish: LC50 (rainbow trout [*Oncorhynchus mykiss*])
2,4 mg/L, exposure time: 96 h

Toxicity to water plants: ErC 50 (Green alga [*Raphidocelis subcapitata*])
0.19 mg/L, growth rate, exposure time: 72 h

Toxicity to invertebrates water animals: EC50 (Great water flea [*Daphnia magna*])
2,63 mg/L, exposure time: 48 h

12.2 Mobility

No data available.

12.3 Persistence and degradability

No data available.

12.4 Bioaccumulation potential

No data available.

12.5 Results of the PBT and vPvB assessment

No data available.

12.6 other adverse effects:

No data available.

Section 13: Disposal considerations

13.1 Disposal/Waster (product):

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.

13.1.1 European waste classification

No data available.

Section 14: Transport information

14.1 Land transport (ADR/RID/GGVSE):

Not classified as dangerous goods.

14.2 Inland waterway transport (ADN):

This classification statement does not apply to carriage in the inland tanker.

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14.3. Seatrtransport (IMDG/IMO-Code/GGVSee):

Not classified as dangerous goods.

14.4 Air transport (IATA/ICAO):

Not classified as dangerous goods.

14.5 Special precautions for user:

See chapters 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

No data available.

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:

| | |
|-----------------|---|
| Acute Tox. | Acute Toxicity. |
| Eye Irrit. | Eye irritation. |
| Skin Irrit. | Irritating reaction of the skin. |
| Aquatic Chronic | Chronic aquatic Toxicity. |
| Aquatic. Acute | Acute aquatic Toxicity. |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic life |
| H411 | Toxic to aquatic life with long-lasting effects |

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.