

# Safety data sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 25.02.2020

Supersedes edition of: 27.11.2019

## SECTION 1: Identification of the substance / mixture and of the company / undertaking

### 1.1 Product identifier

Product name: Stripper Forte Plus

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Basic cleaner

Only for industrial or commercial use. Not to the general public.

### 1.3 Details of the supplier of the safety data sheet

Company: Otto Oehme GmbH  
Industriestraße 20  
D-90584 Allersberg Deutschland  
Tel. +49 9176 98050  
info@oehme-lorito.de

### 1.4 Emergency telephone number

GIZ Nord Poisons Centre, Göttingen Tel. +49 (0) 551 19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

*Classification (Regulation (EC) No. 1272/2008)*

Met. Corr. 1, H290

Skin Corr. 1B, H314

Full text of hazard statements: See under section 16.

### 2.2 Label elements

*Labelling (Regulation (EC) No. 1272/2008)*

*Hazard pictograms:*



*Signal word:*

Danger

*Hazard statements:*

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

*Precautionary statements:*

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

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER.

Contains: Potassium hydroxide.

### 2.3 Other hazards

Not known.

## SECTION 3: Composition / information on ingredients

Solution in water.

*Hazardous components (Regulation (EC) No. 1272/2008)*

Chemical name				Content
CAS-No.	EC-No.	EC-Index-No.	Classification	
Potassium hydroxide				< 5 %
1310-58-3	215-181-3	019-002-00-8	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314	
REACH Registration Number: 01-2119487136-33				
2-(2-Butoxyethoxy)ethanol				< 20 %
112-34-5	203-961-6	603-096-00-8	Eye Irrit. 2, H319	
REACH Registration Number: 01-2119475104-44				
Sodium p-cumenesulphonate				< 10 %
15763-76-5	239-854-6		Eye Irrit. 2, H319	
REACH Registration Number: 01-2119489411-37				
1-Butoxy-2-propanol und Isomeres				< 10 %
5131-66-8	225-878-4	603-052-00-8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319	
REACH Registration Number: 01-2119475527-28				
2-Phenoxyethanol				< 10 %
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4, H302 Eye Irrit. 2, H319	
REACH Registration Number: 01-2119488943-21				
Alcohols, C9-11-iso-, C10-rich, ethoxylated propoxylated (*)				< 5 %
154518-36-2			Skin Irrit. 2, H315 Eye Irrit. 2, H319	

Full text of hazard statements: See under section 16.

(\*) Aucun numéro d'enregistrement disponible pour cette substance car la REACH substance ou son utilisation sont dispensées d'enregistrement selon l'article le 2 de la réglementation REACH (EC) N° 1907/2006, le tonnage annuel ne nécessite aucun enregistrement ou l'enregistrement est prévu pour un délai ultérieur.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

After inhalation: Fresh air. Call in physician if feeling unwell.

After skin contact: Wash off with plenty of water. Immediately remove contaminated clothing. Call a physician immediately.

After eye contact: Rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist immediately.

After swallowing: Make victim drink plenty of water (two glasses at most), avoid vomiting (risk of perforation). Immediately call in physician. Do not attempt to neutralise.

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

Irritation and corrosion, cough, shortness of breath, pain, collapse, death.

Drying-out effect resulting in rough and chapped skin.

Risk of corneal clouding. Risk of blindness!

Dizziness, diarrhoea, nausea, CNS disorders.

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

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### *Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### *Unsuitable extinguishing media*

For this substance / mixture no limitations of extinguishing agents are given.

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

Contains combustible material. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Pay attention to flashback. Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3 Advice for firefighters

#### *Special protective equipment for firefighters*

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

#### *Further information*

Prevent fire-fighting water from entering surface water or groundwater.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Caution: Risk of slipping.

Do not inhale vapours/aerosols. Avoid substance contact. Use personal protective equipment as required, see section 8.2. Ensure supply of fresh air in enclosed rooms. In case of inadequate ventilation wear respiratory protection.

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## 6.2 Environmental precautions

Do not get undiluted into sewerage system.

## 6.3 Methods and material for containment and cleaning up

Take up with incombustible liquid-absorbent material. Forward for disposal. Clean up affected area.

## 6.4 Reference to other sections

Indications about waste treatment see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### *Notes for safe handling*

Ensure adequate ventilation. Avoid contact with skin and eyes. Do not inhale vapours/aerosols. Avoid generation of vapours/aerosols. See section 8.

#### *Notes for prevention of fire and explosion*

Not required.

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

Store cool above 5 °C. Keep away from sun and heat. Tightly closed in a well-ventilated place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### *2-(2-Butoxyethoxy)ethanol*

ECLTV

Name	2-(2-Butoxyethoxy)ethanol
Limit value 8 hours	10 ppm 67.5 mg/m <sup>3</sup>
Short term (< 15 min.)	15 ppm 101.2 mg/m <sup>3</sup>

EH40 WEL

Name	2-(2-Butoxyethoxy)ethanol
Short term exposure limit (STEL)	15 ppm 101.2 mg/m <sup>3</sup>
Time weighted average (TWA)	10 ppm 67.5 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### *Individual protection measures*

Protective clothing should be selected specifically for the working place, depending on

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concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Eye / face protection:**

Tightly fitting safety goggles (EN 166).

**Hand protection:**

Material: Nitrile rubber.

Thickness: 0.1 mm

Breakthrough time: > 480 min

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374, e.g. Franz Mensch Nitrile Safe Premium.

This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

**Respiratory protection:**

Required when vapours/aerosols are generated. Filter A2 P2 (EN 14387).

**Other protective equipment**

Protective clothing.

*Hygiene measures*

Change contaminated clothing. Apply skin- protective barrier cream. Wash hands after working with substance.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Form:	liquid
Colour:	pale yellow
Odour:	characteristic
pH value	> 12
Melting point	not specified
Boiling point	not specified
Ignition temperature	not specified
Flash point	> 100 °C
Explosion limits	lower
	upper
	not specified
Density (23 °C)	~ 1.1 g/cm <sup>3</sup>
Viscosity, dynamic	not specified
Solubility in water	soluble

**9.2 Other information**

None.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Forms explosive mixtures with air on intense heating.

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## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

## 10.3 Possibility of hazardous reactions

Risk of explosion with:

Violent reactions possible with:

Azides, strong acids, anhydrides, hydrocarbons, nonmetallic oxides, phosphorus, organic nitro compounds, halogen oxides, nonmetallic oxyhalides, halogenated hydrocarbon, halogen-halogen compounds, halogens, alkaline earth metals, Ammonium compounds, light metals, metals.

Gives off hydrogen by reaction with metals, oxidizing agents, aluminium.

## 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

Animal / vegetable tissues, glass, various plastics, metals.

Aluminium, light metals, strong oxidizing agents.

## 10.6 Hazardous decomposition products

See section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD<sub>50</sub> rat: 333 mg/kg (OECD 425; potassium hydroxide)

Symptoms: Pain, shock, vomiting, oedema, collapse, death. If ingested, severe burns of the mouth, as well as a danger of perforation of the oesophagus and the stomach.

LD<sub>50</sub> rat: 5660 mg/kg (RTECS; 2-(2-Butoxyethoxy)ethanol)

Symptoms: Nausea, diarrhoea, shortness of breath.

LD<sub>50</sub> rat: > 2000 mg/kg (OECD 404; Sodium p-cumenesulphonate)

LD<sub>50</sub> rat: 3300 mg/kg (OECD 401; 1-Butoxy-2-propanol)

LD<sub>50</sub> rat: 2740 mg/kg (external MSDS; 2-Phenoxyethanol)

LD<sub>50</sub> rat: > 2000 mg/kg (external MSDS; Fatty alcohol alkoxylate)

#### *Acute dermal toxicity*

LD<sub>50</sub> rabbit: 2764 mg/kg (ECHA; 2-(2-Butoxyethoxy)ethanol)

LD<sub>50</sub> rat: > 2000 mg/kg (external MSDS; Sodium p-cumenesulphonate)

LD<sub>50</sub> rat: > 2000 mg/kg (OECD 402; 1-Butoxy-2-propanol)

LD<sub>50</sub> rabbit: 5000 mg/kg (external MSDS; 2-Phenoxyethanol)

#### *Acute inhalation toxicity*

Symptoms: Burns of mucous membranes, cough, shortness of breath. Possible damages: Damage of the respiratory tract. Inhalation may lead to the formation of oedemas in the respiratory tract (potassium hydroxide).

Symptoms: Possible damages: Mucosal irritations (external MSDS; 2-(2-Butoxyethoxy)ethanol).

LC<sub>50</sub> rat: > 5 mg/kg 232 min (external MSDS; Sodium p-cumenesulphonate)

LC<sub>50</sub> rat: > 3.4 mg/l /4 h (OECD 403; 1-Butoxy-2-propanol)

#### *Skin irritation*

Rabbit: Causes burns (IUCLID; potassium hydroxide, anhydrous).

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Drying-out effect resulting in rough and chapped skin. Necrosis.

Mixture causes severe burns.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product (external MSDS; 2-(2-Butoxyethoxy)ethanol).

Rabbit: No irritation (OECD 404; Sodium p-cumenesulphonate).

Rabbit: Skin irritation (OECD 404; 1-Butoxy-2-propanol).

Rabbit: No irritation (OECD 404; 2-Phenoxyethanol).

Skin irritation (OECD 404; Fatty alcohol alkoxyate).

#### *Eye irritation*

Rabbit: Causes serious eye damage (OECD 405; potassium hydroxide, anhydrous).

Risk of corneal clouding. Risk of blindness! Necrosis.

Mixture causes serious eye damage.

Rabbit: Eye irritation. Causes serious eye irritation (RTECS; 2-(2-Butoxyethoxy)ethanol).

Rabbit: Eye irritation. Causes serious eye irritation (OECD 405; Sodium p-cumenesulphonate).

Rabbit: Eye irritation. Causes serious eye irritation (OECD 405; 1-Butoxy-2-propanol).

Rabbit: Eye irritation. Causes serious eye irritation (OECD 405; 2-Phenoxyethanol).

Rabbit: Eye irritation. (external MSDS; Fatty alcohol alkoxyate).

#### *Sensitisation*

Sensitisation test: Guinea pig: Negative (IUCLID; potassium hydroxide, anhydrous).

Sensitisation test (Buehler-Test): Negative (OECD 406; Sodium p-cumenesulphonate).

Sensitisation test: Guinea pig: Negative (OECD 406, 1-Butoxy-2-propanol).

#### *Genotoxicity in vivo*

Mutagenicity (mammal cell test): Negative (external MSDS; 2-Phenoxyethanol).

Mutagenicity (bacteria): Negative (external MSDS; 2-Phenoxyethanol).

#### *Genotoxicity in vitro*

Ames test: Escherichia coli: Negative (IUCLID; potassium hydroxide, anhydrous).

Ames test: Salmonella typhimurium: Negative (National Toxicology Program; 2-(2-Butoxyethoxy)ethanol).

Ames test: Bacteria: Negative (OECD 471; Sodium p-cumenesulphonate).

Mutagenicity (mammal cell test): Micronucleus: Negative (92/69/EC, B.12; Sodium p-cumenesulphonate).

#### *Carcinogenicity*

Did not show carcinogenic effects in animal experiments (OECD 453; Sodium p-cumenesulphonate).

Did not show carcinogenic effects in animal experiments (external MSDS; 1-Butoxy-2-propanol).

#### *Mutagenicity*

Bacteria: No evidence of genotoxic potential (external MSDS; 1-Butoxy-2-propanol).

Mammal cell cultures: Positive (external MSDS; 1-Butoxy-2-propanol).

Mammals: No evidence of mutagen potential (external MSDS; 1-Butoxy-2-propanol).

#### *Reproductive toxicity*

No impairment of reproductive performance in animal experiments (external MSDS; Sodium p-cumenesulphonate).

No impairment of reproductive performance in animal experiments (external MSDS; 1-Butoxy-2-propanol).

#### *Teratogenicity*

Did not show teratogenic effects in animal experiments (external MSDS; Sodium p-cumenesulphonate).

Did not show teratogenic effects in animal experiments (external MSDS; 1-Butoxy-2-propanol).

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#### *Specific target organ toxicity – single exposure*

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### *Specific target organ toxicity – repeated exposure*

May cause Damage to: Liver, kidney (external MSDS; 1-Butoxy-2-propanol).

#### *Aspiration hazard*

No aspiration toxicity classification.

### **11.2 Further information**

Chronic intoxication: Systemic effects: CNS disorders, dizziness. Damage to: Liver, kidney.

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### *Toxicity to fish*

Gambusia affinis LC<sub>50</sub>: 80 mg/l /96 h (IUCLID; potassium hydroxide, anhydrous)  
Lepomis macrochirus LC<sub>50</sub>: 1300 mg/l /48 h (OECD 203; ECHA; 2-(2-Butoxyethoxy)ethanol)  
Oncorhynchus mykiss LC<sub>50</sub>: > 100 mg/l /96 h (external MSDS; Sodium p-cumenesulphonate)  
Poecilia reticulata LC<sub>50</sub>: > 560 – 1000 mg/l /96 h (OECD 203; 1-Butoxy-2-propanol)  
Pimephales promelas LC<sub>50</sub>: 344 mg/l /96 h (external MSDS; 2-Phenoxyethanol)

#### *Toxicity to daphnia and other aquatic invertebrates*

Daphnia magna: EC<sub>50</sub>: > 100 mg/l /48 h (OECD 202; 2-(2-Butoxyethoxy)ethanol)  
Daphnia magna: EC<sub>50</sub>: > 100 mg/l /48 h (OECD 202, Sodium p-cumenesulphonate)  
Daphnia magna: EC<sub>50</sub>: > 1000 mg/l /48 h (OECD 202; 1-Butoxy-2-propanol)  
Daphnia magna: EC<sub>50</sub>: > 500 mg/l /48 h (external MSDS; 2-Phenoxyethanol)

#### *Toxicity to algae*

Pseudokirchneriella subspicatus EC<sub>50</sub>: > 100 mg/l / 96 h (external MSDS; Sodium p-cumenesulphonate)  
Pseudokirchneriella subspicatus EC<sub>50</sub>: > 1000 mg/l / 96 h (external MSDS; 1-Butoxy-2-propanol)

#### *Toxicity to bacteria*

Activated sludge: EC<sub>10</sub>: > 1000 mg/l / 180 min (OECD 209; Sodium p-cumenesulphonate)  
Activated sludge: EC<sub>50</sub>: > 1000 mg/l / 180 min (OECD 209; 1-Butoxy-2-propanol)  
Activated sludge: EC<sub>20</sub>: 620 mg/l /30 min (DIN EN ISO 8192 OECD 209, 2-Phenoxyethanol)  
Pseudomonas putida EC<sub>10</sub>: 320 mg/l /17 h (DIN 38412, 8; 2-Phenoxyethanol)

### **12.2 Persistence and degradability**

#### *Biodegradability*

The surfactants contained in this preparation complies with the Biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.  
Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Biodegradation: 85 % /28 d (OECD 301 C; 2-(2-Butoxyethoxy)ethanol)  
Readily biodegradable (2-(2-Butoxyethoxy)ethanol)



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Biodegradation: > 60 % /28 d (OECD 301B; Sodium p-cumenesulphonate)  
Readily biodegradable (Sodium p-cumenesulphonate)  
Biodegradation: 90 % / 28 d (OECD 301E; 1-Butoxy-2-propanol)  
Readily biodegradable (1-Butoxy-2-propanol)  
Biodegradation: 90 – 100 % /15 d (OECD 301A; 2-Phenoxyethanol)  
Readily biodegradable (2-Phenoxyethanol)

#### *Ratio COD / ThBOD*

96 % (ECHA; 2-(2-Butoxyethoxy)ethanol)

### **12.3 Bioaccumulative potential**

Partition coefficient: n-octanol / water: log P<sub>OW</sub>: 0.56 (25 °C) (external MSDS; 2-(2-Butoxyethoxy)ethanol).

No bioaccumulation is to be expected (2-(2-Butoxyethoxy)ethanol).

No bioaccumulation is to be expected (Sodium p-cumenesulphonate).

No bioaccumulation is to be expected (1-Butoxy-2-propanol).

No bioaccumulation is to be expected (2-Phenoxyethanol).

### **12.4 Mobility in soil**

A binding to the solid phase of the soil is not expected (external MSDS; 1-Butoxy-2-propanol).

### **12.5 Results of PBT and vPvB assessment**

PBT / vPvB assessment not available as chemical safety assessment not required / not conducted.

### **12.6 Other adverse effects**

#### *Additional ecological information:*

Biological effects: Harmful effect due to pH-shift. Caustic even in diluted form.

Do not allow to enter waters, waste water, or soil!

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### *Product:*

Chemicals must be disposed of in compliance with the respective national regulations.

Code of the waste

200129\*

070601\*

Name according to directive 2000/532/EC:

detergents containing dangerous substances.

aqueous washing liquids and mother liquors.

#### *Packaging:*

Product packaging must be disposed of in compliance with the country-specific regulations or must be to a packaging return system.

## **SECTION 14: Transport information**

#### *Road and rail, ADR/RID*

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., (Potassium hydroxide solution), 8, II (E)

Environmentally hazardous: No.

#### *Inland waterway, ADN*

Not tested.

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*Sea, IMDG-Code*

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., (Potassium hydroxide solution), 8, II

EmS: F-A, S-B

Marine pollutant: No.

*Air, IATA-DGR*

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., (Potassium hydroxide solution), 8, II

Environmentally hazardous: No.

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

**SECTION 15: Regulatory information**

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

*EU regulations*

Ingredients according to Regulation (EC) on detergents No. 648/2004:

Non-ionic surfactants: Less than 5 %

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16: Other information**

*Reason for revision:*

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 13: Disposal considerations

*Full text of hazard statements referred to under sections 2 and 3:*

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

*The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.*