

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article no.: 12300SO SOLO KETTEN&MOTORSÄGENREINIGER  
Date of print: 14.04.2014 Revision date: 04.02.2014  
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## 1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifiers:

Article no. (manufacturer / supplier): 12300SO  
Identification of the substance or preparation: SOLO KETTEN&MOTORSÄGENREINIGER  
FORTE

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

#### Relevant identified uses

Cleaner

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

#### Manufacturer / Supplier:

SOLO Kleinmotoren GmbH  
Stuttgarter Str. 41  
71069 Sindelfingen  
GERMANY

Phone: +49 (0) 7031/301-199

Fax: +49 (0) 7031/301-195

#### Dept. responsible for information (Product Safety):

Phone: +49 (0) 7161/802-297

#### Emergency telephone:

Phone: +44 (0) 870 600 6266 (UK Poisons Emergency number)

Phone: +49 (0) 7161 / 802-400 (German)

## 2. SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP):

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Skin Irrit. 2 / H315

Skin corrosion/irritation:

Causes skin irritation.

Eye Dam. 1 / H318

Serious eye damage/eye irritation:

Causes serious eye damage..

#### Classification according to Directive 67/548/EEC or 1999/45/EC

The preparation is dangerous in the sense of Directive 1999/45/EC.

Xi; R38-41

Irritant

Irritating to skin. Risk of serious damage to eyes.

### 2.2. Label elements

#### Labelling (CLP)

#### Hazard pictograms



Danger

#### Hazard Statements:

H315

Causes skin irritation.

H318

Causes serious eye damage..

#### Safety precautions:

P280

Wear eye protection/face protection.

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.

P309 + P311

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

#### contains:

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts

#### Supplemental Hazard information (EU):

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n.a.

**Labelling (67/548/EEC or 1999/45/EC)**



Xi Irritant

**Hazard Statements:**

38 Irritating to skin.  
 41 Risk of serious damage to eyes.

**Safety precautions:**

2 Keep out of the reach of children.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 28 After contact with skin, wash immediately with plenty of water and soap.  
 39 Wear eye/face protection.  
 46 If swallowed, seek medical advice immediately and show this container or label.

**contains:**

sodium hydroxide

**Special provisions concerning the labelling of certain mixtures**

n.a.

**2.3. Other hazards**

Results of PBT and vPvB assessment: Not applicable.

**3. SECTION 3: Composition/ information on ingredients**

**3.2. Mixtures**

**chemical characterization (preparation)**

**Description:** Aqueous formulation.

**Hazardous ingredients:**

**Classification according to EC regulation 1272/2008 (CLP):**

EC No: CAS No.: INDEX no.:	REACH No: chemical name: classification:	% by weight Remark:
215-199-1 1312-76-1	01-2119456888-17 silicic acid, potassium salt Skin Irrit. 2 H315 / Eye Irrit. 2 H319	10 - 20
203-905-0 111-76-2 603-014-00-0	02-2119764899-11 2-butoxyethanol Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315	2,5 - 5
270-115-0 68411-30-3	01-2119489428-22 benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Aquatic Chronic 3 H412	2,5 - 5
229-912-9 6834-92-0 014-010-00-8	disodium metasilicate Skin Corr. 1B H314 / STOT SE 3 H335	1 - 2,5
97043-91-9	alcohols, C9-16, ethoxylated Acute Tox. 4 H302 / Eye Dam. 1 H318	1 - 2,5
204-812-8 126-92-1	01-2119971586-23 sodium etasulfate Skin Irrit. 2 H315 / Eye Dam. 1 H318	1 - 2,5
215-185-5 1310-73-2 011-002-00-6	02-2119752469-26 sodium hydroxide Met. Corr. 1 H290 / Skin Corr. 1A H314	0,3 - 1

**Classification according to Directive 67/548/EEC or 1999/45/EC**

EC No: CAS No.: INDEX no.:	REACH No: Identification of the hazard: classification:	% by weight Remark:
215-199-1	01-2119456888-17	10 - 20

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1312-76-1	silicic acid, potassium salt Xi; R36/38	
203-905-0	02-2119764899-11	2,5 - 5
111-76-2	2-butoxyethanol	
603-014-00-0	Xn; R20/21/22 / Xi; R36/38	
270-115-0	01-2119489428-22	2,5 - 5
68411-30-3	benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts Xn; R22 / Xi; R38-41	
229-912-9		1 - 2,5
6834-92-0	disodium metasilicate	
014-010-00-8	C; R34 / Xi; R37	
		1 - 2,5
97043-91-9	alcohols, C9-16, ethoxylated Xn; R22 / Xi; R41	
204-812-8	01-2119971586-23	1 - 2,5
126-92-1	sodium etasulfate Xi; R38-41	
215-185-5	02-2119752469-26	0,3 - 1
1310-73-2	sodium hydroxide	
011-002-00-6	C; R35	

#### Additional information

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.

#### Labelling for contents according to regulation (EC) No 648/2004, annex 7:

< 5 % anionic surfactants  
< 5 % non-ionic surfactants

## 4. SECTION 4: First aid measures

### 4.1. Description of first aid measures:

#### General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice. Remove contaminated clothing immediately and dispose off safely.

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

#### In case of eye contact:

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

#### After ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

#### Treatment:

No information available.

## 5. SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, Extinguishing powder, Carbon dioxide.

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

High power water jet.

### 5.2. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

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Dense black smoke occurs during fire. Hazardous decomposition products: carbon monoxide, Carbon dioxide. Inhaling hazardous decomposing products can cause serious health damage.

## 5.3. Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

### Additional information:

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

## 6. SECTION 6: Accidental release measures

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

See protective measures under point 7 and 8.

### 6.2. Environmental measures

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Follow the legal protection and safety regulations. Personal protective equipment: refer to chapter 8. Do not eat, drink or smoke when using this product. Open and handle container with care. Provide for good room ventilation. Avoid the formation of aerosol.

#### Precautions against fire and explosion:

No special measures are required.

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

#### Requirements for storerooms and containers:

Protect against: frost. Protect from heat and direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

Observe technical data sheet.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

EC No:	Description:	type:	Limit value		unit
			STEL (EC)	TWA (EC)	
203-905-0	2-butoxyethanol	EN	50	123	mg/m3
111-76-2				25	ppm
215-185-5	sodium hydroxide	EN	2		
1310-73-2					

#### Additional information

TWA (EC): Occupational exposure limit value

STEL (EC): Short term occupational exposure limit value

### 8.2. Exposure controls

refer to chapter 7. No further action is necessary.

#### Occupational exposure controls:

##### Respiratory protection:

When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used.

##### Hand protection:

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber). Breakthrough times and swelling properties of the material must be taken into consideration. Recommended glove articles: DIN EN 374. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

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## Eye protection:

Tightly sealed safety glasses.

## Body protection:

Protective clothing.

## Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser. When using do not eat, drink, smoke, sniff.

## Environmental exposure controls

Do not allow to enter into surface water or drains. refer to chapter 7. No further action is necessary.

## 9. SECTION 9: Physical and chemical properties

### 9.1. information on basic physical and chemical properties

#### Appearance:

**Physical state:** liquid  
**Colour** yellow, clear  
**Odour:** typical

#### Safety relevant basis data

	unit	Method	Remark:
<b>Flash point:</b>	n.a.		
<b>lower explosion limit:</b>	n.a.		
<b>Upper explosion limit:</b>	n.a.		
<b>Vapour pressure (at temperature in °C):</b>	n.b.		
<b>density at 20 °C:</b>	1,07 g/cm <sup>3</sup>	DIN 51757	
<b>Water solubility (g/l):</b>	soluble		
<b>pH (at temperature in °C): 20</b>	11,30	DIN 51369 (10 g/l)	
<b>Viscosity (at temperature in °C): 20</b>	n.b.		
<b>boiling temperature / boiling range:</b>	100 °C		
<b>Pourpoint:</b>	not to apply		
<b>VOC % by weight:</b>	4,4		

### 9.2. Other information:

No information available.

## 10. SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Materials to avoid

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. Im Anwendungsbereich keine

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

2-butoxyethanol

oral, LD50, Rat: 530 - 3000 mg/kg

2-butoxyethanol

dermal, LD50, Rabbit: 2270 mg/kg 0 - 2000 mg/kg

2-butoxyethanol

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inhalative (vapours), LC50, Rat: 2,21 mg/l (4 h)

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sodium hydroxide  
oral, LD50, Rat:

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silicic acid, potassium salt  
oral, LD50, Rat: > 2000 mg/kg

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benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
oral, LD50, Rat: 300 - 2000 mg/kg

---

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
dermal, LD50, Rat: > 2000 mg/kg

---

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
inhalative (dust and mist), LC50, Rat: > 2000 mg/l (4 h)

---

### Irritant and corrosive effects

Toxicological data are not available.

### Sensitisation

Toxicological data are not available.

### Specific target organ toxicity

Toxicological data are not available.

### Aspiration hazard:

Toxicological data are not available.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

### Practical experience

Other observations:

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

### Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

## 12. SECTION 12: Ecological information

### Overall evaluation:

There is no information available on the preparation itself.  
Do not allow to enter into surface water or drains.

### 12.1. Toxicity

2-butoxyethanol

Fish toxicity, LC50, *Lepomis macrochirus*: 1490 mg/l (96 h)

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2-butoxyethanol

Algae toxicity, ErC50, *Scenedesmus quadricauda*: 900 mg/l (168 h)

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2-butoxyethanol

Acute Daphnia toxicity, EC50, *Daphnia magna*: 1720 mg/l (24 h)

---

2-butoxyethanol

Algae toxicity, EC 0%, *Scenedesmus quadricauda*: 900 mg/l (168 h)

---

2-butoxyethanol

Bacterial toxicity, EC 0%, *Pseudomonas putida*: 700 mg/l (16 d)

---

sodium hydroxide

Fish toxicity, LC50, *Gambusia affinis*: 125 mg/l (96 h)

---

sodium hydroxide

Acute Daphnia toxicity, EC50, *Daphnia magna*: 76 mg/l (24 h)

---

sodium hydroxide

Bacterial toxicity, EC50, *Photobacterium phosphoreum*: 22 (15 min)

---

sodium hydroxide

Acute fish toxicity, LC50, *Poecilia reticulata*: 145 mg/l (24 h)

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silicic acid, potassium salt

Fish toxicity, LC50, *Lepomis macrochirus*: 301 - 478 mg/l (96 h)

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silicic acid, potassium salt  
Daphnia toxicity, EC50, Daphnia magna: > 500 mg/l (48 h)  
silicic acid, potassium salt  
Bacterial toxicity:, Pseudomonas putida: > 10000 (18 h)  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
Fish toxicity, LC50, Cyprinus carpio (Common Carp): 1 - 10 mg/l (96 h)  
Method: OECD 203  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
Daphnia toxicity, EC50, Daphnia magna: 1 - 10 mg/l (48 h)  
Method: OECD 202  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
Algae toxicity, ErC50, Desmodesmus subspicatus.: 10 - 100 mg/l (72 h)  
Method: OECD 201

### Long Term Ecotoxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
Fish toxicity, NOEC, Lepomis macrochirus: 0,1 - 1 mg/l (28 d)  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
Daphnia toxicity, NOEC: 1 - 10 mg/l (32 d)

### 12.2. Persistence and degradability

2-butoxyethanol  
Water, Biodegradation:: 100 % (28 d); Evaluation: Readily biodegradable (according to OECD criteria)  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts  
, Biodegradation:: > 60 % (28 d)  
Method: Readily biodegradable (according to OECD criteria)

### 12.3. Bioaccumulative potential

2-butoxyethanol  
Distribution coefficient (n-octanol / water) (log P O/W): 0,81

### Bioconcentration factor (BCF):

Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

## 13. SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product

#### Recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

#### Control report for waste code/ waste marking according to EAKV:

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

070608 other still bottoms and reaction residues

#### Contaminated packaging:

#### Recommendation:

Cleaned containers may be recycled. Vessels not properly emptied are special waste.

## 14. SECTION 14: Transport information

No dangerous good in sense of the transport regulations (ADR / RID / IMDG / IATA).

### 14.1. UN-No.:

No dangerous good in sense of this transport regulation.

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14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**

n.a.

14.4. **Packing Group:**

n.a.

14.5. **Environmental hazards:**

Land transport (ADR/RID)

n.a.

Marine pollutant:

n.a.

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further remarks:**

**Land transport (ADR/RID)**

Tunnel restriction code:

-

**Sea transport (IMDG)**

EmS-No.:

n.a.

14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. SECTION 15: Regulatory information**

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

**EU legislation**

**National regulations**

15.2. **Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

**16. SECTION 16: Other information**

**Relevant R-and H-phrases (Number and full text):**

Skin Irrit. 2 / H315	Skin corrosion/irritation:	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Acute Tox. 4 / H332	Acute toxicity (inhalative):	Harmful if inhaled.
Acute Tox. 4 / H312	Acute toxicity (dermal):	Harmful in contact with skin.
Acute Tox. 4 / H302	Acute toxicity (oral):	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation:	Causes serious eye damage..
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment:	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B / H314	Skin corrosion/irritation:	Causes severe skin burns and eye damage.
STOT SE 3 / H335	Specific target organ toxicity (single exposure):	May cause respiratory irritation.
Met. Corr. 1 / H290	corrosive to metals:	May be corrosive to metals.
Skin Corr. 1A / H314	Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Xn; R20/21/22	Harmful	Harmful by inhalation, in contact with skin and if swallowed.
Xi; R36/38	Irritant	Irritating to eyes and skin.
C; R35	Corrosive	Causes severe burns.
C; R34	Corrosive	Causes burns.
Xi; R37	Irritant	Irritating to respiratory system.
Xn; R22	Harmful	Harmful if swallowed.
Xi; R38-41	Irritant	Irritating to skin. Risk of serious damage to eyes.
Xi; R41	Irritant	Risk of serious damage to eyes.

**Further remarks:**

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and



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EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

**Annex:**

n.a.: not applicable  
n.b.: not determined  
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Transport of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
LD50: lethal dose, 50%  
LC50: lethal concentration, 50%