

# Safety Data Sheet

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

according to Regulation (EU) No 453/2010

Article no.: 2254SO SOLO-WARTUNGS+PFLEGESPRAY  
Date of print: 14.04.2014 Revision date: 25.02.2014  
version: 2.0 Date of issue: 25.04.2013

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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): 2254SO  
Identification of the substance or preparation: SOLO-WARTUNGS+PFLEGESPRAY

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

#### Relevant identified uses

See technical information

### 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].

Flam. Aerosol 1 / H222 Flammable aerosols: Extremely flammable aerosol.

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

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

F+; R12 Extremely flammable Extremely flammable  
R66 Repeated exposure may cause skin dryness or cracking.

### 2.2. Label elements

#### Labelling (CLP)

#### Hazard pictograms



Danger

#### Hazard Statements:

H222 Extremely flammable aerosol.  
H229 Container under pressure. Danger of bursting container.

#### Safety precautions:

P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

#### contains:

n.a.

#### Supplemental Hazard information (EU):

EUH066 Repeated exposure may cause skin dryness or cracking.

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



F+ Extremely flammable

**Hazard Statements:**

12 Extremely flammable  
 66 Repeated exposure may cause skin dryness or cracking.

**Safety precautions:**

2 Keep out of the reach of children.  
 16 Keep away from sources of ignition - No smoking.  
 24 Avoid contact with skin.  
 51 Use only in well-ventilated areas.

**contains:**

n.a.

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

96 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
 97 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**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:** Formulation containing compressed gas.

**Hazardous ingredients:**

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

EC No:	REACH No:	% by weight
CAS No.:	chemical name:	Remark:
INDEX no.:	classification:	
918-481-9	01-2119457273-39 hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Asp. Tox. 1 H304	25 - 100
203-448-7		25 - 100
106-97-8	butane	
601-004-00-0	Flam. Gas 1 H220 / Press. Gas	
200-827-9		2,5 - 5
74-98-6	propane	
601-003-00-5	Flam. Gas 1 H220 / Press. Gas	
265-159-2	01-2119480132-48	2,5 - 5
64742-56-9	distillates (petroleum), solvent-dewaxed light paraffinic Asp. Tox. 1 H304	

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

EC No:	REACH No:	% by weight
CAS No.:	Identification of the hazard:	Remark:
INDEX no.:	classification:	
918-481-9	01-2119457273-39 hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Xn; R65 / R66	25 - 100
203-448-7		25 - 100
106-97-8	butane	
601-004-00-0	F+; R12	
200-827-9		2,5 - 5
74-98-6	propane	
601-003-00-5	F+; R12	

**Additional information**

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Full text of R-phrases: see section 16.  
Full text of H-phrases: see section 16.

## 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:

Rinse mouth immediately and drink plenty of water. 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:

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. Provide adequate ventilation. Remove all sources of ignition.

### 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

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## 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:

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition.

## 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: CAS No.:	Description:	type:	Limit value		unit
			STEL (EC)	TWA (EC)	
203-448-7 106-97-8	butane	EN	1810 750	1450 600	mg/m3 ppm

### 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:

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. In case of insufficient ventilation, wear suitable respiratory equipment.

##### 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.

##### Eye protection:

Tightly sealed safety glasses.

##### Body protection:

Protective clothing.

##### Protective measures:

After contact clean skin thoroughly with water and soap or 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: Aerosol  
Colour: brownish  
Odour: typical

Safety relevant basis data	unit	Method	Remark:
Flash point:	n.a.		
lower explosion limit:	0,6 Vol-%		

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<b>Upper explosion limit:</b>	10,9 Vol-%	
<b>Vapour pressure (at temperature in °C):</b>	n.b.	
<b>density at 20 °C:</b>	0,82 g/cm <sup>3</sup>	DIN 51757
<b>Water solubility (g/l):</b>	insoluble	
<b>pH (at temperature in °C): 20</b>	n.a.	
<b>Viscosity (at temperature in °C): 20</b>	n.a.	
<b>boiling temperature / boiling range:</b>	n.b.	
<b>Pourpoint:</b>	n.a.	
<b>VOC % by weight:</b>	84,0	

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.

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics  
oral, LD50, Rat: > 5000 mg/kg

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics  
dermal, LD50, Rabbit: > 5000 mg/kg

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics  
inhalative (vapours), LC50, Rat: > 4951 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:

distillates (petroleum), solvent-dewaxed light paraffinic

Aspiration hazard

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Aspiration hazard

#### 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

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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

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Daphnia toxicity, EC50, Daphnia magna: 1000 mg/l (48 h)

### Long Term Ecotoxicity

distillates (petroleum), solvent-dewaxed light paraffinic

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: > 100 mg/l

Method: OECD 201

### 12.2. Persistence and degradability

Toxicological data are not available.

### 12.3. Bioaccumulative potential

distillates (petroleum), solvent-dewaxed light paraffinic

Distribution coefficient (n-octanol / water) (log P O/W): > 3,5

### 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.

150104 metallic packaging

#### Contaminated packaging:

#### Recommendation:

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

## 14. SECTION 14: Transport information

### 14.1. UN-No.:

1950

### 14.2. UN proper shipping name

Land transport (ADR/RID):

AEROSOLS, FLAMMABLE

Sea transport (IMDG):

AEROSOLS

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Air transport (ICAO-TI / IATA-DGR): AEROSOLS, FLAMMABLE

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

2.1

#### 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:

D

##### Sea transport (IMDG)

EmS-No.:

F-D, S-U

#### 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):

Asp. Tox. 1 / H304

Aspiration hazard:

May be fatal if swallowed and enters airways.

Flam. Gas 1 / H220

Flammable gases:

Extremely flammable gas.

Press. Gas

Gases under pressure:

F+; R12

Extremely flammable

Extremely flammable

Xn; R65

Harmful

Harmful: may cause lung damage if swallowed.

R66

Repeated exposure may cause skin dryness or cracking.

#### Further remarks:

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

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LC50: lethal concentration, 50%