

Safety Data Sheet according to Regulation (EC) No 1907/2006

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Trade name: SVALOS Thinner No. 222
Revision date: 05.12.2012
Print date: 20.06.14

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: **SVALOS Thinner**
Article number: 222

1.2. Relevant identified use

Cleaner , Degreaser

1.3. Details of the supplier of the safety data sheet

Manufacturer:

LIVOS Pflanzenchemie GmbH & Co KG
Auengrund 10
D – 29559 Wrestedt
Email: info@livos.de

Information contact: LIVOS +49 (0)5825-88-0

1.4. Emergency Telephone Number:

+49 (0)30-30686-717 (Advice centre for poisoning, Berlin, 24h, German and English)

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 [CLP/GHS]

The preparation is dangerous in the sense of the guideline.

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

The preparation is dangerous in the sense of the guideline.

2.2. Label elements

Regulation (EC) No 1272/2008 [CLP/GHS]



GHS08



GHS09

Signal word: **Danger**

Asp. Tox. 1, H304,
Aquatic Acute 1, H400;
Aquatic Chronic 4, H413;
Skin Irrit. 2, H315;
Skin sens. 1, H317

Hazardous components for labelling

Isoaliphates and orange oil

Hazard statements

H304 May be fatal if swallowed and enters airways
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H413 May cause long lasting harmful effects to aquatic life
H315 Causes skin irritation
H317 May cause an allergic skin reaction

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Precautionary statements

P102 Keep out of reach of children
P262 Do not get in eyes, on skin, or on clothing
P301+P330+P331, P315, P101 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention. If medical advice is needed, have product container or label at hand.

2.3. Hazardous components for labelling

Isoaliphates and orange oil

2.4. Hazardous components for labelling

Contains limonene . Can cause allergic reactions .
Can cause lung damage if swallowed. At increased temperatures the liquid can evaporate and develop explosive mixtures at or above the flash point.
See also point 9.
Due to the degreasing effect of the solvent prolonged or repeated skin contact may result in dermatitis (skin inflammation).

3. Composition/information on ingredients**3.1. Substances**

This product is a mixture.

3.2. Mixtures

Description: Preparation of Isoaliphates and orange oil.

Hazardous ingredients

ISOALKANES; CAS-No.: 90622-58-5, EINECS: 918-167-1

Reg.nr.: 01-2119472146-99

Percent: 50-100 %

Classification according to 1272/2008/EC: Asp. 1, H304; Aqu.chron.4, H413;

Classification according to 67/548/EEC: Xn, R65,66; R53;

ORANGEN OIL ; CAS-Nr. : 8028-48-6

Percent: 1 - 10 %

*Classification according to 1272/2008/EC : (Flam. Fl. 3, H226; Asp. 1, H304; Aqu. Akut. 1, H400; Aqu. Chron. 1, H410, Skin Irrit. 2, H315;
Skin sens. 1, H317*

Classification according to 67/548/EEC: R10; Xn, R65; N, R50/53; Xi, 38,43

4. First aid measures**4.1. Description of first aid measures****General information:**

Remove clothing contaminated by the product, immediately.

In case of inhalation:

Provide fresh air. Keep affected person still. Consult a physician if problems persist.

In case of skin contact:

Wash the skin area with water and soap.

In case of eye contact:

Flush immediately and thoroughly with plenty of water until the irritation diminishes. In case of persistent eye irritation, visit your optician.

In case of ingestion:

Do NOT induce vomiting. Keep affected person still and consult a physician.

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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, Extinguishing powder, Carbon dioxide, Water mist.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

None known .

5.3. Advice for fire-fighters

Use suitable breathing apparatus (compressed air breathing apparatus).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep public away. Provide enough ventilation.

6.2. Environmental precautions:

Do not allow to enter in water bodies or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

7. Handling and storage

7.1. Precautions for safe handling

Protective measures

Keep container tightly closed. Provide good ventilation at the workstation.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store cool and dry. Protect against heat and direct exposure to the sun.

Requirements for storage rooms and vessels:

Make sure that the floor is solvent resistant and properly sealed.

Hints on storage assembly:

Do not store together with oxidizing agents.

7.3. Further information

Not applicable.

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

ISOALKANES; CAS-No.: 90622-58-5

Specification: TRGS 900, Nr. 2,9

Value: 600 mg/m³ (Occupational exposure limit value (AGW) Germany)

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R-P-MENTHA-1,8 -DIEN; CAS-Nr. : 5989-27-5
Specification: 2(II);DFG, Sh, Y
Value: 110 mg/m³, 20 ml/m³
Peak limitation category: none known

8.2. Exposure controls

Recommended methods of analysis for job measurements: See series of publications of the Federal Institution for industrial safety and industrial medicine (BAuA)"dangerous working materials" (GA 13)

Appropriate engineering controls

No further information. See also section 7.

8.3. Personal protection equipment

Observe the usual precautions for handling chemicals: Avoid contact with skin and eyes. Keep away from foodstuffs, beverages and feed. When using do not eat and drink and smoke.

Respiratory protection

Should the room air concentrations exceed the abovementioned approximate value, despite technical precautionary measures, take actions for extraction or similar, otherwise wear respiratory protection, e.g. filter half mask, Gas filter A1 (brown) to 1000 mg / m³. Gas Filter A2 (brown) to 5000mg / m³. Gas filter A3 (brown) to 10000 mg / m³.

Hand protection

Wear protective gloves according to EN 374. Suitable material: nitriles rubber. Layer thickness of 0.1 mm.
Breakthrough time of the glove material >30 min..

Eye protection

Safety glasses with side protection according to EN 166:2001, especially when decanting.

Protective clothing for the body

Full-body working clothes .

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid
Color: colorless
Odor: orange oil , solvents

Security related information

Risk of explosion: No
Explosion limits:
Lower: 0.6 Vol %
Upper: 6.5 Vol %
Vapour pressure at 20°C: n.a.
Density at 20°C: appr. 0.77 g/ml
Density at 15°C: appr. 0.76 g/ml
Viscosity at 20°C: appr. 12,6 sec , DIN 4 mm
Water solubility: insoluble
pH-value: n.a.
Melting point / range: n.a.
Boiling temperature / boiling range: n.a.
Flash point: > 61°C
Ignition temperature: > 200 °C

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10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

The product is chemically stable under normal ambient conditions.

10.3. Thermal decomposition / conditions to avoid

No decomposition when used as directed.

Avoid: heat, flames, sparks

10.4. Possibility of hazardous reactions

When used as directed no hazardous reactions are expected.

10.5. Incompatible materials

Strong oxidizing agents

Strong acids

10.6. Hazardous decomposition products

In case of fire, formation of carbon monoxide CO and carbon dioxide CO₂.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

| <i>Component:</i> | <i>CAS</i> | <i>Type</i> | <i>Value</i> | <i>Species</i> |
|-----------------------------------|------------|------------------------|------------------------------|----------------|
| <i>Hydrocarbon mixture C11-12</i> | 90622-58-5 | <i>LD 50, OECD 401</i> | <i>oral >5000 mg/kg</i> | <i>Rat</i> |
| <i>Hydrocarbon mixture C11-12</i> | 90622-58-5 | <i>LD 50, OECD 402</i> | <i>dermal >5000 mg/kg</i> | <i>Rabbit</i> |
| <i>(R)-p-Mentha-1,8 -dien</i> | 5989-27-5 | <i>LD 50</i> | <i>>4400 mg/kg</i> | <i>Rat</i> |

In case of inhalation:

Steam concentrations above the recommended workplace value cause irritation to the eyes and respiratory system. Headaches, dizziness and disturbances of the central nervous system can likewise be caused.

In case of skin contact:

Little toxic effect. Frequent or persisting skin contact can degrease and drain the skin, which can lead to skin disorders and inflammations (Dermatitis).

In case of eye contact:

Causes light eye complaints, however no damage of the eye fabric.

In case of ingestion:

Smaller quantities, which enter into the lungs through swallowing and subsequent vomiting, can lead to a pulmonary edema or to pneumonia.

Practical experience:

Because of the general experience, the scientific literature and the legal regulations is there under adherence to the instructions for use, no health endangerment to be expected. Watch out for possible allergic reactions to particular agents.

12. Ecological information

12.1. Toxicity

Aquatic toxicity:

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

Floats on water. Bioaccumulation possible.

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12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

No further relevant information available.

12.6. General information:

Do not allow to enter groundwater, water bodies or drains.

13. Disposal considerations

13.1. Waste treatment methods:

The following advice relates to the product that has been left on and not on further processed products.
When mixed with other products, other disposal methods may be required.

Recommendations

Dispose of waste according to applicable local, state, and federal regulations.

Waste code

07 01 04 Other organic solvents ,washing liquids and mother lye.

Packaging

Contaminated packaging must be completely empty and properly cleaned before it can be re-cycled.

14. Transport information

ADR/RID and GGVSEB (cross-border/inland): Non-dangerous goods within the meaning of the transport regulations.

ADR/ RID-GGVS/ E Class:

Cypher/letter:

UN-Number:

Kemmler number:

Marine transport IMDG/GGVSee: Non-dangerous goods within the meaning of the transport regulations.

IMDG/GGVSee-Class:

UN-Number:

Packaging group:

MP:

Proper technical name:

Air transport ICAO-TI and IATA-DRG: Non-dangerous goods within the meaning of the transport regulations.

ICAO/IATA-class: -

15. Regulatory information

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

EU – regulations

Verordnung (EG) Nr. 648/2004 (detergents):

Not applicable

National regulations (Germany)

Restrictions of occupation:

Restrictions of occupation for children and adolescents according 45/33/EC and relevant national regulations have to be considered.

Water Endangerment class

WGK 1 (German Water Hazards Classes, self-classification): weakly water-endangering.

Solvent regulation (31. BImSchV)

VOC-Content: 100 %

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15.2. Chemical safety assessment

The mixture did not undergo a safety assessment.

16. Other information

Key literature references and sources of data

Internet

<http://www.baua.de>

Exact wording of the R-phrases mentioned under Point 2 and 3 According to regulation (EC) No. 1272/2008:

| | |
|------|--|
| H226 | Flammable liquid and vapour |
| H304 | May be fatal if swallowed and enters airways. |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H413 | May cause long lasting harmful effects to aquatic life |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |

Data Sheet issued by:

Department: Product safety

The information described in this datasheet refers exclusively to the characteristics and safety requirements of this particular product. They cannot apply however any longer, if the product is mixed with other materials or is used during a different process. The statements correspond to our knowledge and experiences at the indicated time. However, no guarantee for soundness, reliability and completeness is given. The user must make sure of all the facts, so that all specifications for his respective use are suitable and complete.