

MATERIAL SAFETY DATA SHEET

according to (EC) No. 1907/2006

Date of print: 01.06.2010

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SVALOS Thinner No. 222

1. Chemical product and its preparation / Identification of the company

Trade Name: SVALOS Thinner No. 222
Use of the substance / preparation: Thinner
Manufacturer: LIVOS Pflanzenchemie GmbH & Co KG
Auengrund 10
D - 29568 Wieren
Technical contact point: Product Security Department
Telephone / E-Mail: Tel.: +49 5825 / 88-0 / E-Mail: projekte@livos.de
Emergency Phone: +49 (0)5825-88-0 (Monday - Thursday 7 -16.00 and Friday 7 - 13.00)
+49 (0)30 - 30686790 (24h)

2. Hazards identification

Hazard statements: Xn, R65
Harmful: may cause lung damage if swallowed.

Additional information about special

dangers for humans and environment: R 43 May cause sensitisation by skin contact.
Liquid can evaporate by increased temperatures and form explosive mixtures by or above the flash point. See also point 9.
Contains limonene.

3. Composition / information on ingredients

Chemical characterization (substance): Preparation out of: Isoalkane and orange oil

Hazardous ingredients:

CAS-No.	Name	Percent	Symbol	R-phrases
64742-47-8	Isoalkane	51-100	Xn	R 65, 66
90622-58-5	Isoalkane	11-50	Xn	R 65, 66
8028-48-6	Orangenöl	1-10	Xn, N	R 10, 38, 43, 50/53, 65

4. First aid measures

General information: Change moistened clothes.
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 soap and water. Consult a physician if skin reaction persists.
In case of eye contact: Rinse immediately and thoroughly out with much water until the irritation diminishes. By continuous eye irritation, visit your optician.
In case of ingestion: Do NOT induce vomiting. Keep affected person still and consult a physician.

5. Fire-fighting measures

Suitable extinguishing media: Foam, Extinguishing powder, Carbon dioxide, Water mist.
Extinguishing media which must not be used for safety reasons: Full water jet.
Special hazards arising from the substance or preparation itself, combustion products, developing gases: -
Special protective equipment for fire-fighters: Use suitable breathing apparatus.

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6. Accidental release measures

Personal precautions: Keep public away. Provide adequate ventilation.
Environmental precautions: Do not allow to enter water bodies or drains.
Methods for cleaning up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents)

7. Handling and storage

Advice on safe handling: Keep container tightly closed. Provide enough ventilation at the workstation.
Precautions against fire and explosion: Keep away from sources of ignition - No smoking.
Further information: -
Information on storage conditions: Store in a cool and dry place. Protect against heat and direct exposure to the sun.
Requirements for storage rooms and containers: Make sure it is solvent steady and that the floor is properly sealed.
Hints on storage assembly: Do not store together with oxidizing agents.
Storage class: n. a.
Flammable Liquid Class: A III

8. Exposure controls / Personal protection

Monitor requiring components with occupational exposure limits resp. biological exposure limits:
Occupational exposure limits (AGW) Germany:

CAS-No.	Designation of the material	Limit	Unit	Type	Country
64742-47-8	Hydrocarbon-mixture	1000	mg / m ³	TRGS 900/901	
90622-58-5	Hydrocarbon-mixture	1000	mg / m ³	TRGS 900/901	

Exposure control and limitation:

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

Personal protection equipment: The usual precautionary measures while handling chemicals are to be considered.
Respiratory protection: Should the room air concentrations exceed, despite technical precautionary measures the abovementioned approximate value, take measures for extraction or similar actions, otherwise wear respiratory protection, e.g. filter half mask type "A" or something similar.
Hand protection: Protective gloves with resistance to chemicals. Suitable material: nitriles. Exact penetration times are to be requested from the manufacturer and kept.
Eye protection: Eye glasses with side protection.
Protective clothing for the body: -

9. Physical and chemical properties

Color: colorless
Physical state: liquid
Odor: Hydrocarbons and orange
Melting point / melting range: n. a.
Boiling temperature / boiling range: Start from 199 °C
Flash point: > 61 °C
Ignition temperature: > 200 °C
Autoinflammability: n. a.

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Risk of explosion:	The product is not explosion dangerous, however the building of explosion-dangerous steam/air mixtures is possible.
Explosion limits (LEL, UEL)::	upper: 7,0 Vol. % lower: 0,6 Vol. %
Vapor pressure:	n. a.
Solidification :	n. a.
pH-Value:	n.a.
Density:	0,789 g/cm ³
Water solubility:	Insoluble.
Viscosity:	Kinematic < 7cSt (40 °C)

10. Stability and reactivity

Dangerous reactions:	-
Materials to avoid:	Avoid contact with strong oxidising agents.
Hazardous decomposition products:	No hazardous decomposition products known.

11. Toxicological information

The product has been classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

Practical experience:	According to the general experience there are no other hazards expected than those already mentioned on the label. Watch out for possible allergic reactions to particular ingredients.
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Information on ingredients

Acute toxicity:

Component (Name)	Kind	Value	Species
Hydrocarbon-mixture	isoaliphatic	oral 6000 mg/kg	rat

Primary irritation

After 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.
After skin contact:	More frequently or persisting skin contact can degrease and drain the skin, which can lead to skin disorders and inflammations (Dermatitis).
After eye contact:	Causes light eye complaints, however no damage of the eye fabric.
After swallowing:	Smaller quantities, which comes through swallowing or following vomiting into the lungs, can lead to a pulmonary edema or to pneumonia. Very small poison effect.

12. Ecological information

General information:	Do not allow to enter groundwater, water bodies or drains. Contains weakly water-endangering solvents, according to German Water Endangerment Class (WGK) 1.
Ecotoxicity:	-
Persistence and degradability:	-

13. Disposal considerations

Recommendation:	According to locally regulated laws.
Waste codes in accordance with EWC (European Waste Catalogue):	07 01 04 Other organic solvents, washing liquids and mother lye.
Disposal considerations:	Dispose of empty containers according to locally regulated laws.
Appropriate disposal / packaging:	Contaminated packaging must be completely empty and properly cleaned before it can be re-cycled.

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14. Transport information

Land transport (ADR/RID) and GGVS/ GGVE: Non-dangerous goods within the meaning of the transport regulations.

ADR/ RID-GGVS/ E Class:

Cipher/letter:

Kemmler number:

UN Number:

Description of the goods:

Marine transport (IMDG) / GGVSSee: Non-dangerous goods within the meaning of the transport regulations.

IMDG/ GGVSSee- Class:

Page:

UN Number:

Packing group:

EMS No.:

MP:

Proper technical name:

Air transport (ICAO-TI / IATA-DGR): Not classified for this transport carrier.

ICAO/ IATA- Class:

UN/ ID Number:

Packing group:

Proper technical name:

15. Regulatory information

Classification and labeling according to EC regulations / Hazardous Goods Act

Hazard symbols and hazard statements of the product: Xn; Harmful

Hazardous components for labeling: Isoalkane, orange oil

R-phrases:

R 43 May cause sensitisation by skin contact.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

S 2 Keep out of the reach of children.

S 23 Do not breathe gas/fumes/ vapour

S 24 Avoid contact with skin

S 62 If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

National regulations

Water Endangerment class:

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

VOC content:

100%

16. Other information

Exact wording of the R-phrases mentioned under point 2 and 3:

R 10

Flammable.

R 38

Irritating to skin.

R 50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Data sources:

<http://www.baua.de>

Data Sheet issued by:

Product Security Department

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 that all specifications for his respective use are suitable and complete.