

according to (EC) No. 1907/2006

KUNOS - Natural Oil Sealer

No. 244

1. Chemical product and it's preparation / Identification of the company

Trade Name: **KUNOS Natural Oil Sealer No. 244**

Use of the substance / preparation: For interior use on solid timber. Not suitable for plywood or cabinet interiors.

Manufacturer: LIVOS Pflanzenchemie GmbH & Co. KG
Auengrund 10
D - 29568 Wieren
Product Safety Department

Technical contact point: Tel.: +49 5825 88-0 / projekte@livos.de
Telephone / E-mail: +49 (0)5825 88-0 (Mon-Thu 7am-4pm and Fri 7am-1pm)
Emergency Phone: +49 (0)30 - 30686790 (24h)

2. Hazards identification

Hazard statements: The preparation is not dangerous in the sense of the guideline 1999/45/EC.

Additional information about special dangers for humans and the environment:

Contains limonene, wood oil, and Cobalt (2+) salts. Can cause allergic reactions. Can by swallowing cause lung damage. Liquid can evaporate by increased temperatures and form explosive mixtures by or above the flash point. See also point 9.

3. Composition / information on ingredients

Chemical characterization (substance) : Preparation out of : Depending on color in different proportions: Linseed oil, linseed oil - stand oil - natural resin ester, linseed oil - wood oil - stand oil, highly transparent iron oxide, titan dioxide, natural resin glycerol ester, linseed oil - stand oil, orange oil, isoaliphates, silicic acid, micronized wax, pine oil, rosemary oil, dehydrated amino sugar and drying agents free of lead. (Ca, Co, Mn, Zr)

Hazardous ingredients:

CAS-No	Name	Percent	Symbol	R-phrases
90622-57-4	Isoalkane	11-50	Xn	R 53, R 65, R 66
90622-58-5	Isoalkane	11-50	Xn	R 65, R 66
8028-48-6	Orange oil	< 1	Xn, N	R 10, 38, 50/53, 65

4. First aid measures**General information:**

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 and rinse with plenty of water. Consult a physician if skin reaction persists.

In case of eye contact: Rinse immediately and thoroughly out with plenty of 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.

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).

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7. Handling and storage**Advice on safe handling:**

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

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Further information:**Information on storage conditions:**

Store cool and dry. 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:

-

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
90622-57-4	Isoalkane	1000	mg/m ³	TRGS 900/901	
90622-58-5	Isoalkane	1000	mg/m ³	TRGS 900/901	

Exposure control and limitation:

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)

Personal protection equipment:

The usual precautionary measures while handling chemicals are to be considered.

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 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, especially recommended while transferring.

Protective clothing for the body:

-

9. Physical and chemical properties**Color:**

different colors

Physical state:

liquid

Odor:

mild

Melting point / melting range:

n.a.

Boiling temperature / boiling range:

I.B.P. 199 °C

Flash point:

> 61 °C

Ignition temperature:

>200 °C

Autoinflammability:

The product in itself is not inflammatory. Self inflammation danger due to the plant oil content with e.g. moistened cloth, adsorbent material and not thoroughly-dried grinding dust. (autoxidation); keep away from oxygen and light.

Risk of explosion:

The product in itself is not explosive, however, the development of explosive steam/air mixtures is possible.

Exposition limits (LEL, UEL):**upper:** 7.0 Vol. % **lower:** 0.6 Vol. %**Vapor pressure:**

n.a.

Solidification:

n.a.

pH-Value:

n.a.

Density:by 20 °C ca. 0,89 g/cm³, according to color tone**Water solubility:**

insoluble

Viscosity:

kinematic > 7 cSt (by 40 °C)

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10. Stability and reactivity

Dangerous reactions:	n.a.
Materials to avoid:	Avoid contact with strong oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products known.

11. Toxicological information

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

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 reaction to particular agents.

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: A small poison effect. Frequent or persistent 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 weak water-endangering solvents, according to WGK 1.

Ecotoxicity: n.a.

Persistence and degradability: n.a.

13. Disposal considerations

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

Waste codes in accordance with EWC (European Waste Catalogue): 08 01 11 Waste paint and varnish contained organic solvents or other dangerous substances.

Disposal considerations: Dispose of dried-out paints, etc. according to locally regulated laws.

Appropriate disposal / packaging: Contaminated packing must be completely emptied and can be recycled after proper cleaning.

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14. Transport informationLand transport (ADR/RID) and GGVS/GGVE: Non dangerous goods in the sense of these transport regulations.**ADR / RID-GGVS/ E Class:****Cipher/letter:****Kemmler number:****UN Number:****Description of the goods:**Marine transport (IMDG) / GGVSSee:

Non dangerous goods in the sense of these transport regulations.

IMDG / GGVSSee- Class:**Page:****UN Number:****Packaging group:****EMS No.:****MP:****Proper technical name:**Air transport (ICAO-TI / IATA-DGR):

Not classified for this way of transport.

ICAO/ IATA- Class:**UN/ ID Number:****Packaging Group**29.06.2009**Proper technical name:****15. Regulatory information****Classification and labeling according to EC regulations / Hazardous Goods Act****Hazard symbols and hazard statements of the product:**

Contains limonene, wood oil, and Cobalt (2+) salts. Can cause allergic reactions.

Hazardous components for labeling:

Isoaliphate, Orange oil, Drying agents

R-phrases:**S-phrases:**

S 2 Keep out of the reach of children.

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:

25-53 % (according to color tone)

16. Other Information**Exact wording of the R-phrases mentioned under point 2 and 3:****R 53**

May cause long-term adverse effects in the aquatic environment.

R 65

Harmful: may cause lung damage if swallowed.

R 66

Repeated exposure may cause skin dryness or cracking.

Data sources:<http://www.baua.de>**Data Sheet issued by:****Product Safety 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.