

Date of print 08.04.2008

KUNOS Floor Maintenance No. 1862

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**1. Identification of the substance/preparation and of the company/undertaking**

**Trade Name:** KUNOS Floor Maintenance No. 1862

**Use of the substance / preparation:** For maintaining wooden floors coated with KUNOS Natural Floor Sealer No. 241 or Natural Oil Sealer No. 244.

**Manufacturer:** LIVOS Pflanzenchemie GmbH & Co KG  
Auengrund 10  
D - 29568 Wieren

**Technical contact point:** Product Security Dept

**Telephone / E-Mail:** Tel. 05825-88-0 / Mail: projekte@livos.de

**Emergency phone:** 05825-88-0 (Mo.-Do. 7-16 Uhr, Fr. 7-13 Uhr)

**Poison emergency no.**

**2. Hazards identification**

**Hazard statements:** Classification: Xi, R43  
Irritant. Sensitization by skin contact possible.

**Information pertaining to special dangers for human and environment:**

**Information pertaining to special dangers for human and environment:** Contain 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 : Linseed oil- stand oil- natural resin ester, wood oil-stand oil, natural resin glyserol ester, Isoaliphates and drying agents free of lead.

**Hazardous ingredients:**

CAS-no.	Name	Percent	Symbol	R-phrases
90622-57-4	Isoaliphatic hydrocarbons	11-50	Xn	R 53, R 65, R 66
90622-58-5	Isoaliphatic hydrocarbons	11-50	Xn	R 65, R 66
8001-20-5	Wood oil	1-10	Xi	R 43

**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. 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 exposure hazards arising from the substance or preparation itself, the combustion products or the resulting gasses:**

**Special protective equipment for fire-fighters:** Use suitable breathing apparatus.

**Additional information:**

**6. Accidental release measures**

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**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 good ventilation at the workstation.

**Precautions against fire and explosion:** Keep away from sources of ignition - No smoking.

**Further information:**

**Further 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. Keep in mind validity for common storage with products of other categories.

**Storage class:** A III

## 8. Exposure controls / Personal protection

**Monitor requiring components with occupational exposure limits resp. biological exposure limits**

**Occupational exposure limit value (AGW) Germany:**

CAS-No.	Designation of the material	Limit value	Unit	Kind	Country
90622-57-4	Isoalkane	1000	mg/m <sup>3</sup>	TRGS 900/901	
90622-58-5	Isoalkane	1000	mg/m <sup>3</sup>	TRGS 900/901	

### **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)

### **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 especially when decanting.

**Protective clothing for the body:**

## 9. Physical and chemical properties

**Color:** yellowish

**Physical state:** liquid

**Odor:** mild

**Melting point / melting range:**

**Boiling temperature / boiling range:** Simmer temperature of the solvents: 199 °C

**Flash point:** > 61 °C

**Auto Ignition temperature:** > 200 °C

**Auto-inflammability:** 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.

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## 9. Physical and chemical properties (Con.)

**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:** 0,6Vol.%

**Vapour pressure:**

**Solidification:**

**pH-Value:**

**Density:** by 20°C ca.0,82 g/cm<sup>3</sup>

**Water solubility:** Insoluble.

**Viscosity:** Kinematic >7 cSt (by 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 was 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 which are already mentioned on the label. Watch out for possible allergic reaction to particular agents.

### *Information about the content*

#### **Acute Toxicity:**

Component	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:** Small poison effect. 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 ingestion:** 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. Contain weak water-endangering solvents, according to WGK 1.

**Ecotoxicity:**

**Persistence and degradability:**

## 13. Disposal considerations

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

**Waste codes/waste designations no. in accordance with AVV:** 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.

## 14. Transport information

Land transport (ADR/RID)and GGVS/GGVE Non dangerous goods in the sense of these transport regulations.

**ADR/ RID-GGVS/ E Class:**

**Cypher/letter:**

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**Kemmler amount:**

**UN Number:**

**Packing group:**

**Description of the goods:**

Marine transport (IMDG) / GGVSee:

Non dangerous goods in the sense of these transport regulations.

**IMDG/ GGVSee- Class:**

**Page:**

**UN Number:**

**Packing group:**

**EMS No.:**

**MP:**

**Proper technical name:**

Air transport (ICAO-TI / IATA-DGR):

Non dangerous goods in the sense of these transport regulations.

**ICAO/ IATA- Class:**

**UN/ID-Number:**

**Packing group:**

**Proper technical name:**

## **15. Regulatory information**

### ***Classification and Labelling According to EC Regulations / Hazardous Goods Act***

**Hazards symbols and statements of the product:**

Xi Irritant

Contain Cobalt(2+)salts. Can cause allergic reactions.

**Hazardous components for labelling:**

Wood oil, isoaliphates, drying agents

**R-phrases:**

R 43 May cause sensitisation by skin contact.

**S-phrases:**

S 2 Keep out of the reach of children.

S 24 Avoid contact with skin.

S 37 Wear suitable gloves.

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

### ***National regulations***

**Water Endanger class:**

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

**VOC Content:**

78%

## **16. Additional Information**

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

Department: Product security

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.