

Material Safety Data Sheet (91/155/EWG)

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Date of issue: June 25, 2002

Trade Name: LUKAS Helios restoration medium, article no. 2245

1. Identification of the substance, preparation and the company:

Trade Name: LUKAS Helios restoration medium, article no. 2245

Manufacturers Name: LUKAS Künstlerfarben & Maltuchfabrik,
Dr. Fr. Schoenfeld GmbH & Co.

Manufacturers Address: Harffstr. 40
40591 Düsseldorf - Germany

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fax: ++49-211-781329
Emergency Phone: ++49-211-781340 (LUKAS laboratory)

2. Composition / Information on Ingredient:

Content (%)	CAS-No.	Symbol	Risk-phrases	Substance
(1) 75	8006-64-2	Xn, N	10, 20/21/22, 51/53	oil of turpentine

additional information regarding the chemical characterization: mixture of copaiva balsam in oil of turpentine

3. Health Hazard Data:

Xn Harmful
N Dangerous for the environment
R 10: Flammable.
R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures:

In general: Remove all contaminated clothing immediately.

Inhalation: Move to a well ventilated area. If unconscious, seek medical attention.

Skin Contact: Wash skin with soap and water for 5 minutes. Seek medical attention if skin-irritation persists.

Eye Contact: Remove all eyewear. Rinse eyes thoroughly (5 – 10 minutes) with water. Seek medical attention if irritation develops.

Ingestion: If swallowed, do not induce vomiting. Call a physician or poison control center immediately. Get prompt medical attention. If symptoms occur, move to fresh air. If symptoms persist, see a physician.

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5. Fire Fighting Measures:

Extinguishing Media: water fog, water mist.

Not recommended for security reasons: full power water jet, CO2.

Particular danger caused by material, its combustion products or gases: may form explosive gas air mixture.

Proper Protective Equipment: protective clothing and a self-contained breathing apparatus.

6. Accidental Release Measures

Air: not applicable

Water: Avoid entry into water and sewage systems. Pay attention to local official rules.
Contain contaminated extinguished water.

Ground: Pick up product with liquid-binding material (sand, acid-binder, universal-binder, sawdust)

Contaminated material should be disposed as mentioned under point 13. Ensure good ventilation.

7. Handling and Storage

7.1 Handling: Handling as usual for working with chemicals:
Keep away from food and drinks.
Avoid open fire as product is flammable.
Avoid skin contact.
Wash hands immediately after use.
Avoid ingestion.
Avoid breathing vapors.
Keep away from eyes.
When using wear impermeable protective gloves.
When using do not eat, drink or smoke.
Do not store or use near heat or flame.
Use exhaust fan to admire adequate cross ventilation.

7.2 Storage: Store in a cool area and avoid direct sunlight.
Avoid release to the environment.
Keep out of reach of children.
Storage class: VbF: AII

8. Exposure Controls / Personal Protection

8.1 Additional hints to the formation of technical installations: Use only in well ventilated areas.

8.2 Components with work-place related limits to be monitored:
See name and CAS no. under point 2.

No.	Type	Value	Unit
(1)	MAK	100	ml/m ³ (ppm)

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9. Physical and Chemical Properties

Form: liquid
Colour: yellowish
Odour: characteristic
pH value: not applicable
Melting Point: not applicable
Boiling Point: 151 – 173 °C
Flash Point: approx. 36°C
Ignition Temperature:
Explosion Limits: lower explosion limit (%): 0,7 %
upper explosion limit (%): 6,0 %
Density: 0,89 g/ml (20 °C)
Solubility in Water: not applicable

10. Stability and Reactivity

Conditions to avoid: No decomposition when stored and handled correctly.
Dangerous reactions: May cause with air an explosive steam-air-mixture.
Strong reaction with: Strong oxidizing agents.

11. Toxicological Information

LD (oral, human): 150 ml; TC.LO (inhal, human): 175 ppm -> irritation

Skin effects: irritating; can cause dry skin.
Eye Effects: weak irritation to eyes.
Sensitisation: weak sensitising effect.

12. Ecological Information

General hint: The product should not be allowed to enter drains or water courses.
Water hazard classes (German regulation) 2 (self-assessment): hazardous for water.
Avoid entry into water, ground and sewage systems.

13. Disposal Considerations

Pick up spilled quantities with universal-binder (kieselguhr) or sand. Dispose of this material and its container at hazardous or special waste collection points. Do not dispose with household waste. Avoid entry into sewage system.

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14. Transport Information:

14.1 Road Transportation:

Class/Cipher/Letter: class 3, cipher 31 c
IMDG: UN number: 1866
Danger Activator: turpentine

14.2 Inland Navigation Transportation:

Class/Cipher/Letter:

14.3 Ocean Navigation Transportation:

Class: class 3.3, page 3379
IMDG: packing group: III
Marine pollutant: mp
EMS-number: 3-05
MFAG: 310

14.4 Air Transportation:

Class: class 3

14.5 Additional Comments:

Correct technical name: resin solution, flammable

15. Regulatory Information:

Danger Description: Xn Harmful
N Dangerous for the environment

Product includes: turpentine

Risk-Phrases:

R 10: flammable
R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional details: packing with child-safety-stopper

16. Other Information

The purpose of this Safety Data Sheet is to describe our product with respect to possible safety issues and requirements. All data presented has been prepared using our most recent knowledge and experience, and is not meant to be a guarantee of the products' properties.