

Material Safety Data Sheet (91/155/EWG)

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Date of issue: January 22, 2002

Trade Name: LUKAS fixativ for pastels, crayon and charcoal, article no. 2323

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

Trade Name: LUKAS fixativ for pastels, crayon and charcoal, article no. 2323

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

Manufacturers Address: Harffstr. 40
40591 Düsseldorf - Germany

Phone: ++49-211-78130

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

2. Composition / Information on Ingredient:

	Content (%)	CAS-No.	Symbol	Risk-phrases	Substance
(1)	0-1	1330-20-7	Xn	10, 20/21, 38	xylol
(2)	20-40	67-63-0	F, Xi	11, 41	propan-2-ol
(3)	1-4	71-36-3	Xn	10, 22, 38, 41	n-butanol

acrylic resins in mixture of different solvents, propellant

3. Health Hazard Data:

F+ Extremely flammable

R 12: Extremely flammable.

R 18: In use, my form flammable/explosive vapour-air mixture.

Caution: Pressurized container: protection from sunlight and do not expose to temperatures exceeding 50 °C (e.g. in the car). Do not pierce or burn, even after use. Do not spray in an open flame or any incandescent material. Keep away from source of ignition – No smoking. Keep out of the reach of children. Without sufficient ventilation formation of explosive mixtures may be possible. Avoid contact with eyes and skin. Use only in well ventilated premises.

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.
Avoid ingestion.
Avoid breathing vapors.
Wash hands immediately after use.
When using wear impermeable protective gloves.
When using do not eat, drink or smoke.
Keep away from eyes.
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: 2B

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
(2)	MAK	200	ml/m ³
(3)	MAK	100	ml/m ³

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9. Physical and Chemical Properties

Form: aerosol
Colour: colourless
Odour: characteristic
pH value: approx. 7
Melting Point: not applicable
Boiling Point: not applicable
Flash Point: not applicable
Explosion Limits: lower explosion limit (%): 1,0 %
upper explosion limit (%): 15,0 %
Density: 0,98 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: Exposure to air may cause an explosive steam-air-mixture.
Strong reaction with: Strong oxidizing agents and strong acids, strong alkali.

11. Toxicological Information

There are no data available on the preparation itself.

Skin effects: irritation to skin.
Eye Effects: irritation to eyes

12. Ecological Information

There are no data available on the preparation itself.

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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14.1 Road Transportation:

Class/Cipher/Letter: class 2, cipher 5F
IMDG: danger sign number:
UN number: 1950
Name of the goods: aerosols flammable (propellant: propan, butan)

14.2 Inland Navigation Transportation:

Class/Cipher/Letter: non applicable

14.3 Ocean Navigation Transportation:

Class: class 2, page 2102
IMDG: packing group: II
Marine pollutant:
EMS-number: 2-13
MFAG : 620

14.4 Air Transportation:

Class: class 2.1

14.5 Additional Comments:

Correct technical name: aerosols flammable (propellant: propan, butan)

15. Regulatory Information:

Danger Description: F+ Extremely flammable

Risk-Phrases:

R 12: Extremely flammable.

R 18: In use, may form flammable/explosive vapour-air mixture.

Caution: Pressurized container: protection from sunlight and do not expose to temperatures exceeding 50 °C (e.g. in the car). Do not pierce or burn, even after use. Do not spray in an open flame or any incandescent material. Keep away from source of ignition – No smoking. Keep out of the reach of children. Without sufficient ventilation formation of explosive mixtures may be possible. Avoid contact with eyes and skin. Use only in well ventilated premises.

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.