

Safety Data Sheet according to EC directive 91/155 EEC



Product name: **Lusin LUB PM 1001 (spray)**

Code-No.: **151020**

Date of print : 11.6.1999

Revision date: 11.6.1999

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

Product name: Lusin LUB PM 1001 (spray)

Code-No.: 151020

Company: Klüber Chemie KG
Ganghoferstr. 47
D-82216 Maisach-Gernlinden

Telephone: ++49 - 8142 - 417 - 0 telephone exchange

Telefax: ++49 - 8142 - 15884

Emergency telephone no.: ++49 - 8142 - 417 - 0

2. Composition/information on ingredients

Chemical characterization : (preparation)

Release agent spray based on : special oils and solid lubricant particles (e.g. graphite)

propellant : flammable, liquefied hydrocarbons

solvent basis : aliphatic hydrocarbons

Hazardous ingredients

CAS-No.	Components	Value	Symbols	R-phrases
74-98-6	propane	~ 9,0 %	F+	12
106-97-8	butane	~ 53,0 %	F+	12
64742-49-0	aliphatic hydrocarbons	> 25,0 %	F	11

3. Hazards identification

Characterization of hazards

F+ - Extremely flammable

R phrases

12

Extremely flammable.

Specific hazards to man and the environment

No further particular hazards known.

4. First aid measures

After inhalation

Move to fresh air. If symptoms persist, call a physician.

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After contact with skin

Wash off with soap and plenty of water.

After contact with eyes

Rinse with plenty of water.

After ingestion

Do not induce vomiting. Obtain medical attention.

Advice to doctor

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

water spray, foam, dry powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

high volume water jet

Special hazards

In case of fire the following can be released : Carbon monoxide, hydrocarbons

Special protective equipment for firefighters

Standard procedure for chemical fires.

Additional information

Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation. Remove all sources of ignition

Environmental precautions

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up

Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Additional information

None

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7. Handling and storage

7.1 Handling

Advice on safe handling

Use only in well-ventilated areas.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Do not smoke. Vapours may form explosive mixture with air.

7.2 Storage

Requirements on storage rooms and vessels

Observe your national regulations relating to the storage of containers under pressure.

Incompatible materials

Incompatible with oxidizing agents.

Further information on storage conditions

Keep in a well-ventilated place. Keep away from heat.

8. Exposure controls/personal protection

8.1 Additional advice on system design

not applicable

8.2 Advices on limits (TLV) according to german regulations (TRGS 900)

limit values

CAS-No.	Components	type	Value
74-98-6	propane	TLV	1000 ml/m ³
106-97-8	butane	TLV	1000 ml/m ³

additional informations to limits

aliphatic hydrocarbons --> according to german regulations (TRGS 900) : recommended limit value 200 ppm

8.3 Personal protective equipment

Respiratory protection

No special protective equipment required.

Hand protection

No special protective equipment required.

Eye protection

No special protective equipment required.

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Body protection

No special protective equipment required.

Other protection measures

No special protective equipment required.

General protection and hygiene measures

Avoid prolonged and/or repeated contact with skin. Clean skin thoroughly after work - apply skin cream. Remove soiled or soaked clothing immediately. Do not breath vapours or spray mist.

9. Physical and chemical properties

9.1 Appearance

Form: aerosol
Colour: not applicable
Odour: characteristic

9.2 Safety data

Change in physical state

		Test method
Melting point:	-- °C	not applicable
Boiling point:	-- °C	not applicable
Sublimation point:	-- °C	not applicable
Softening point:	-- °C	not applicable
Flash point:	-- °C	not applicable
Flammability:	Not applicable °C extremely flammable °C	
Ignition temperature:	-- °C	not applicable

Autoignition temperature

solid: Not applicable
gas: no data available

Explosive properties

lower explosion limit: 1,5 Vol %
upper explosion limit: 9,5 Vol %
Vapour pressure-first: ~ 3500 (20°C) hPa
inner pressure
Vapour pressure-second: ~ 7000 (50°C) hPa
inner pressure

Density: ~ 0,6 g/cm³ active agent

Water solubility: insoluble
pH value: Not applicable

Kinematic viscosity: not applicable
Outpoor time: Not applicable

10. Stability and reactivity

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Conditions to avoid

Keep away from strong sunshine.

Materials to avoid

strong oxidizing agents

Hazardous decomposition products

none under normal use

Additional information

Fire or intense heat may cause violent rupture of packages.

11. Toxicological information

The toxicological data has been taken from products of similar composition. (in accordance with the Chemicals (Hazard Information and Packaging) Regs 1993.

Acute toxicity : LD50/oral/rat = > 2g/kg (literature data)

Chronic toxicity : None

Human experience : Prolonged skin contact may cause skin irritation and/or dermatitis.

12. Ecological information

Information on elimination (persistence and degradability)

Product is insoluble in water. Can be separated mechanically in purification plants.

Behaviour in environmental compartments

Ecological injuries are not known or expected under normal use.

Ecotoxic effects

No data is available on the product itself. Aquatic toxicity is unlikely due to low solubility.

Additional information

Should not be released into the environment.

All these informations refer to the spray agent.

13. Advice on disposal

Disposal

Code-No. according EEC : 150199

Can be incinerated, when in compliance with the Environment Protection Act 1990 (Process Guidance Note IPR5/1)

Empty spray can as far as possible.

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Dispose of contaminated packaging and recommended cleaning

Dispose of as unused product. Offer empty spray cans to an established disposal company.

14. Transport information

14.1 Land transport

GGVS/GGVE: 2 Item 5 F

Name:

Aerosol

14.2 Inland waterways transport

ADN/ADNR: no data available

14.3 Sea transport

IMDG-Code: 2
UN number: 1950
EMS: 2-13
MFAG: 4.2
Marine pollutant : None

Name

Aerosols

14.4 Air transport

ICAO/IATA-DGR: 2.1
UN/ID number: 1950

Name

Aerosols, flammable, n.o.s.

15. Regulatory information

15.1 Labelling according to EU-guidelines

The product is labelled in accordance with EC directives 94/1/EEC of 94/06/01

Hazards

F+ - Extremely flammable

Hazardous component(s) to be indicated on label

propane
butane

R phrases

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Extremely flammable.

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S phrases

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Keep out of reach of children.

Keep away from sources of ignition - No smoking.

Do not breathe aerosol

Use only in well-ventilated areas.

Special labelling on certain preparations

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

15.2 National regulations

Observe your own national regulations

16. Other information

None

Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: +49 - 8142 - 417 - 136

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