

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

Item-No.: 4170...(117...)
Trade Name: LYRA marking spray PROFI - quality

Supplier: Lyra Bleistift-Fabrik GmbH & Co.KG
Willstaetterstrasse 54 - 56
90449 Nuernberg
Germany
Phone: ++49 911 68 05 0
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Information provided by: Laboratory

Emergency telephone number: Beratungsstelle für Vergiftungen, Berlin
Phone: ++49 30 19240

2. Composition/information on ingredients

CAS	Ingredient	Conc. %	Symbols	R-Phrases/Others
64742-49-0	naphta, H-treated	>20<25	Xn, N, F	11,38,65,67,51/53
78-83-1	2-methyl-1-propanol	>2<5	Xi	10,37/38,41,67
64-17-5	ethanol	>10<15	F	11
74-98-6	propane	>20<25	F+	12
106-97-5	butane	>20<25	F+	12

Additional information:
The ingredient naphta contains less than 0.1% benzene.

3. Hazards identification

Extremely flammable;

Vapours may cause drowsiness and dizziness;
Harmful to aquatic organisms; may cause long term adverse effects in the aquatic enviroment;

4. First aid measures

In case of accident or if you feel unwell, seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

First aid measures / inhalation: Ensure supply of fresh air. When inhaled remove to fresh air and seek medical aid.

First aid measures / skin contact: Remove soiled or soaked clothing immediately, do not allow to dry. Clean body thoroughly (e.g. shower). In case of contact with skin wash off immediately with soap and water.

First aid measure / eye contact: In case of contact with eyes rinse thoroughly with plenty of water or eye-cleaning solution and seek medical advice.

First aid measure / ingestion: When swallowed accidentally, do not induce vomiting; get medical help; When swallowed seek medical aid immediately and show the physician the packaging or the label of packaging.

5. Fire fighting measures

Suitable extinguishing media: Foam, dry powder, carbon dioxide;
Extinguishing media that must not be used for safety reasons: Water, full water jet.
Special exposure hazards arising from the substance or preparation itself, combustion products or from resulting gases: Combustion gases of organic materials must in principle be graded as inhalation poisons.
Special protective equipment for firefighting: Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.
Additional informations: Fire residues must be disposed of in a proper manner. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions: Ensure adequate ventilation; remove persons to safety; keep people away and stay on the upwind side.
Environmental precautions / Handling and storage: Do not allow to enter drains or waterways; Do not allow spilt product to enter soil or waterways; Cover drains; Contain contaminated water/firefighting water.
Methods for cleaning up/taking up: Take up with absorbent material (eg. sand, kieselguhr, universal binder); pick up with liquid binding materials and if necessary fill in containers capable of being locked; clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations; dispose of as prescribed; clean equipment with solvents.

7. Handling and storage

Hints on safe handling: If handled uncovered, good ventilation and neutralisation of vapours are essential. When spray cabine not capped (enclosed), use exhaust ventilation or breathing apparatus. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid impact, friction and electro-static loading; risk of ignition! Use antistatic tools.
Hints for protection against fire and explosion: Keep away from sources of ignition - refrain from smoking. Use explosion proof equipment/fittings and non-sparking tools.
Requirements for storage rooms and vessels: Storage rooms must be properly ventilated.
Hints on storage assembly: Keep away from sources of ignition, water and alkalies. Keep in a cool place away from acids, alkalies and combustible material. Do not store or transport together with foodstuffs.
Further information on storage conditions: The storage temperature should not exceed 50°C.
Recommended storage temperature: 10 - 25°C.

8. Exposure controls/personal protection

Respiratory protection: If ventilation insufficient, use fresh air mask according to EN 141.
Hand protection: Gloves of nitrile rubber;
Eye protection: Wear safety glasses according to EN 166.
General protective measures: Do not inhale vapours; avoid contact with skin; avoid contact with eyes.

CAS	Ingredient	Value	Unit
78-83-1	2-methyl-1-propanol	100	ppm
64-17-5	ethanol	500	ppm
64742-49-0	naphta	200	ppm
68606-25-7	propane/butane	1000	ppm

Hygienic measures: At work do not eat, drink, smoke or take drugs. Keep away from food-stuffs and beverages; wash hands before breaks and after work;

9. Physical and chemical properties

Appearance:

Form: Aerosol;
Colour: Various;
Odour: Solvent like;

Further information:

Safety data:

Flash point / Method: - 80°C DIN 53213
Viscosity / Method: 68 sec. DIN 53211 2mm (20°C) for the active substance
Density / Method: 0.75 g/cm³ DIN 53217 (20°C)
Lower Explosion Limit: 0.67 % (m/m)
Upper Explosion Limit: 15.00 % (m/m)
Solubility in water: Insoluble;
Vapour pressure: < 300 kPas bei 50°C for the active substance

10. Stability and reactivity

Conditions to avoid: Heat, flames, sources of ignition, electrostatic charging;

Hazardous products form decomposition: At fire formation of CO and CO₂;

11. Toxicological information

Acute toxicity: Light irritation of eyes, skin and mucous membrane is possible.

Inhalation of the aerosol in high concentration will cause a narcotic effect.

No specific data is available.

12. Ecological information

Pigments are highly stable in accordance with the specifications and therefore only slightly biodegradable in the conditions of sewage treatment plants or surface waters.

No specific data is available.

13. Disposal considerations

Disposal / Product: Waste code no. 200112

Name of waste: Colours, coloured printing ink;

14. Transport information

GGVSee/IMDG-Code: 2.1 UN-NR: 1950 ICAO/IATA: 2.1
GGVE/GGVS: 2.1 ADR/RID: 2 5F ADNR: 2.1

15. Regulatory information

Labelling in accordance with GefStoffV / EC:

Labelling: Extremely flammable;
Hazard symbols: F+

R phrases: 12, 67, 52/53

Extremely flammable, vapours may cause drowsiness and dizziness, harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment;

S phrases: 2, 23, 29, 51

Keep out of the reach of children, do not breath spray, do not empty into drains, use only in well-ventilated areas;

Special labelling: Pressurized container; do not expose to sunlight or at a temperature above 50°C; do not puncture or burn container even when empty; do not spray near a naked flame or onto incandescent material; keep away from sources of ignition; without adequate ventilation risk of explosion;

Contains: Propane / Butane;

VOC: Approx.: 560 g/L;

WGK (self-classification): 1

16. Other information

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemical (Hazard Information and Packaging) Regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.