

Material Safety Data Sheet (GB)

according to 91/155/EEC



Product name : LUBA-print VP 693/B
40% in 2-butoxy-ethanol
Revision : 10.01.2007 **Version :** 1.0.0
Print date : 25.04.2007

01. Identification of substance, preparation and company

Product name : LUBA-print VP 693/B
40% in 2-butoxy-ethanol
Use of the substance / preparation : Waxadditiv for lacquers and printing-inks.
Manufacturer/Supplier : L. P. Bader & Co. GmbH
Street/P.O.Box : Neckartal 140
Country code/Postal code/Town/City : 78628 Rottweil
Telephone : +49 741 / 9 42 52-0
Telefax : +49 741 / 9 42 52-50
Emergency information : +49 741 / 9 42 52-0

02. Composition/information on ingredients

Chemical characterization

Waxdispersion

Hazardous components

BUTYL CELLOSOLVE ; EC-No. : 203-905-0 ; CAS-No. : 111-76-2

Percentage : 60 %

Classification : Xn ; R 20/21/22 Xi ; R 36/38

For the wording of the listed risk phrases refer to section 16.

03. Hazards identification

Hazard designation

Harmful by inhalation, in contact with skin and if swallowed. · Irritating to eyes and skin.

Classification : Xn ; R 20/21/22 · Xi ; R 36/38

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

Notes to a physician

Symptomatic treatment. Give water with activated carbon for reducing absorption in the alimentary canal. Consider danger of aspiration into the lung..

05. Fire-fighting measures

Suitable extinguishing media

Foam, CO₂, powder extinguisher.

Unsuitable extinguishing media

Water.

Special risk posed by the substance or by the actual preparation, its combustion

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products or gases discharged

If the product is exposed to great heat, decomposition may occur. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Observe section 10 "Hazardous decomposition products."

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

07. Handling and storage

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Requirements to be met by storerooms and containers

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from ignition sources - No smoking. Provide for sufficient ventilation. Do not store together with oxidants.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking.

Storage class (VCI) : 10

08. Exposure controls and personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Components with critical values that require monitoring at the workplace (exposure limits)

BUTYL CELLOSOLVE ; CAS-No. : 111-76-2

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 20 ppm / 98 mg/m³

Category : 4(II)

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Remarks : H,Y
Version date : 01.01.2006
Specification : TRGS 903 - biological maximum limits (D)
Parameter : Butoxy acetic acid / urine / in cases of long term exposure after several shifts
Value : 100 mg/l
Version date : 31.03.2004
Specification : Short term exposure limit (EC)
Value : 50 ppm / 246 mg/m³
Remarks : H
Version date : 08.06.2000
Specification : threshold limit value (EC)
Value : 20 ppm / 98 mg/m³
Remarks : H
Version date : 08.06.2000

Personal protective equipment

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

Hand protection

Solvent-resistant protective gloves must be worn. After washing hands replace lost skin fat by fat containing skin creams. The glove material must be impermeable and resistant against the product/substance/preparation. Please observe manufacturer's instructions with regard to permeability and breakthrough time, as well as the particular conditions at the workplace (mechanical stress, duration of contact). Recommended materials (please observe manufacturer's instructions): Nitrile rubber gloves. Butyl rubber gloves. Fluorocarbon rubber gloves.

Eye protection

Use safety glasses.

Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Light-brown.
Odour : Characteristic.

Relevant safety data

Boiling point / range :	(1013 hPa)	ca.	170 °C	literature
Flash point :			67 °C	ASTM D 6450
Ignition temperature :		ca.	230 °C	literature
Lower explosion limit :			1,1 % b.v.	literature
Upper explosion limit :			10,6 % b.v.	literature
Vapour pressure :	(50 °C)	ca.	1 hPa	literature
Density :	(20 °C)	ca.	0,96 g/cm ³	DIN 53217
Solvent-separation test :	(20 °C)	<	3 %	
Solubility in water :	(20 °C)		soluble	
Viscosity :	(23 °C / at 1291 s-1)	ca.	70 mPa.s	DIN 53214
Content VOC (EC) :			60 % b.w.	

10. Stability and reactivity

Conditions to avoid

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Stable under recommended storage and handling conditions(See section 7). Keep away from oxidizing agents

Hazardous decomposition products

At high temperatures, dangerous decomposition products such as carbon dioxide, carbon monoxide, hydrogen fluoride, carbonyl fluoride and tetrafluoroethylene can be generated.

11. Toxicological information

Toxicological tests

LD50/LC50 values that are relevant for classification

Specification :	LC-50 (BUTYL CELLOSOLVE ; CAS-No. : 111-76-2)
Routes of entry :	inhalativ
Test species :	rat
Value / dosage :	500 ppm
Specification :	LC-50 (BUTYL CELLOSOLVE ; CAS-No. : 111-76-2)
Routes of entry :	inhalativ
Test species :	mouse
Value / dosage :	700 ppm
Specification :	LD-50 (BUTYL CELLOSOLVE ; CAS-No. : 111-76-2)
Routes of entry :	oral
Test species :	rat
Value / dosage :	1480 mg/kg
Specification :	LD-50 (BUTYL CELLOSOLVE ; CAS-No. : 111-76-2)
Routes of entry :	dermal
Test species :	rabbit
Value / dosage :	400 mg/kg

Experience on practice

When heated, gaseous decomposition products are generated, which can cause "fluoropolymer fever" on inhalation. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation. Irritation of the upper respiratory tract: symptoms can consist of coughing, sore throat, irritation of the nasal and pharyngeal cavities, headache, restriction of the thorax and breathing difficulties. Information on fluoropolymer fever: a flu-like illness with symptoms such as dyspnoea, chills, fever, coughing, cyanosis. This is caused by the inhalation of fluoropolymer decomposition products. The smoking of tobacco contaminated with fluoropolymers can contribute to the exposure of decomposition products. Generally, symptoms occur after two hours and subside within 36 to 48 hours. Permanent or persistent effects of the respiratory tract were not observed In case of swallowing: even minor quantities may lead to considerable damage to health.

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. Ecological information

Additional ecological information

Do not empty into waters or drains.

13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium. Always observe official regulations. EAK-waste-code: 070 704

14. Transport information

No dangerous goods according to international transport regulations.

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15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xn ; Harmful

Hazard-determining components of labelling

BUTYL CELLOSOLVE ; CAS-No. : 111-76-2

R-phrases

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

S-phrases

51 Use only in well-ventilated areas.

36/37 Wear suitable protective clothing and gloves.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

National regulatory information

Water pollution classification

Class : 1 according VwVwS

16. Other information

Further information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

R-Phrases of components

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.