

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

Product name:	Lukas Linol
Stock codes:	153101, 153106, 153109, 153118, 153120, 153123, 153132, 153137, 153141, 153144, 153151, 153160
Relevant identified uses of the substance or mixture:	Water Based Linol Printing Inks
Company name:	LUKAS-NERCHAU GmbH Harffstrasse 40 D 40591 Duesseldorf
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Emergency Number:	+49 211 7813 0

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is classified as not hazardous according to 1999/45/EC

2.2. Label elements:

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Hazard statements N/A.

Precautionary statements N/A.

Contains: N/A.

Supplemental Hazard information (EU) N/A.

Labelling (67/548/EEC or 1999/45/EC)

Hazard pictograms Hazard statements N/A.

Precautionary statements N/A

Contains: N/A.

Special provisions concerning the labelling of certain mixtures N/A

2.3. Other hazards

3. Composition/information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Aqueous preparation of polymer resins with pigments and additives

Hazardous ingredients

Classification according to Regulation (EC) No. 1272/2008 [CLP] N/A

Classification according to Directive 67/548/EEC or 1999/45/EC N/A

Additional information

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.

4. First aid measures

4.1. Description of first aid measures

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Inhalation Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm.

Skin contact Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

Strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for fire-fighters

No one other than trained fire fighters should attempt to fight fires. Provide a conveniently located respiratory protective device.

Additional information

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

6.2. Environmental precautions:

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

7. Handling and storage

7.1. Precautions for safe handling:

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Follow the legal protection and safety regulations.

7.2. Conditions for safe storage, including any incompatibilities

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSIVO). Keep container tightly closed Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C.

7.3. Specific end use(s)

Observe instructions for use.

8. Exposure controls/personal protection

8.1. Control parameters

N/A

8.2 Exposure controls:

Provide good ventilation. This can be achieved with local or room suction.

Occupational exposure controls

Respiratory protection: Not applicable.

Hand protection: For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber) Thickness of the glove material 0,4 mm Breakthrough time (maximum wearing time) 30 min Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection: Wear closely fitting protective glasses in case of splashes.

Body protection: Wear suitable protective clothing and gloves.

Protective measures After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Viscous Liquid
Colour	Refer to label
Odour	Characteristic
pH at 20 °C:	9,00
Flash point	Not applicable
Vapour pressure at 20 °C:	Not applicable
Density at 20 °C:	1,30 g/cm ³
Water Solubility (g/L)	insoluble
Viscosity at °C:	-

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition by-products may form with exposure to high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition by-products may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

11. Toxicological information

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Toxicological data are not available.

Irritant and corrosive effects

Toxicological data are not available.

Sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Practical experience/human evidence

Other observations: Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC. There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and has not been classified

12. Ecological information

overall evaluation

There is no information available on the preparation itself . Do not allow to enter into surface water or drains.

12.1 Toxicity

No information available.

Long-term Ecotoxicity

Toxicological data are not available

12.2. Persistence and degradability

Toxicological data are not available

12.3. Bioaccumulative potential

Toxicological data are not available

12.4. Mobility in soil

Toxicological data are not available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII

12.6. Other adverse effects

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

80112 waste paint and varnish other than those mentioned in 080111

Packaging Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

14. Transport information

14.1. UN Number

N/A

14.2. UN proper shipping name

N/A

14.3. Transport hazard class(es)

N/A

14.4. Packing group

N/A

14.5. Environmental hazards

N/A

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code -

Sea transport (IMDG)

EmS-No N/A

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 0

VOC-value (in g/L) ASTM D 2369: 0

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical safety assessment

Chemical safety assessments for substances in this preparation were not carried out.

16. Other information

Relevant R-and H-phrases (Number and full text): N/A

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.