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Lukas Retouching Varnish

(TNL 712052)

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

Product name: Lukas Retouching Varnish (Lukas Retuschierfirnis)  
Stock codes: 712052  
Relevant identified uses of the substance or mixture:  
Artists supply and hobby preparations  
Company name: LUKAS-NERCHAU GmbH  
Harffstrasse 40  
D 40591  
Duesseldorf  
Tel: +49 211 7813 0  
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Email: info@lukas.eu  
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 hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

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

This mixture is classified as hazardous according to 1999/45/EC.

R10		Flammable
N; R51-53	Dangerous for the environment	Toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.
Xn; R65	Harmful	Harmful: may cause lung damage if swallowed.
R66		Repeated exposure may cause skin dryness or cracking.
R67		Vapours may cause drowsiness and dizziness

#### 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]

Special provisions concerning the labelling of certain mixtures N/A

## Hazard pictograms



Danger

## Hazard Statements

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects

## Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P262	Do not get in eyes, on skin, or on clothing.
P102	Keep out of reach of children.

**Contains:** Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

## Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking

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



Xn Harmful



N Dangerous for the environment

## Hazard statements

10	Flammable
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

## Precautionary statements

2	Keep out of reach of children.
29	Do not empty into drains

**Contains:** Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Special provisions concerning the labelling of certain mixtures** N/A

### 3. Composition/information on ingredients

#### 3.2. Mixtures

Description Varnish

Hazardous ingredients

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

EC No CAS No INDEX No	REACH No. Chemical name classification:	Wt % Remark
203-539-1	01-2119457435-35-XXXXX	
107-98-2	1-methoxy-2-propanol	10 - 12.5
603-064-00-3	Flam. Liq. 3 H226 / STOT SE 3 H336	
919-446-0	01-2119458049-33	
64742-82-1	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	50 - 100
649-330-00-2	Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	

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

EC No CAS No INDEX No	REACH No. Chemical name classification:	Wt % Remark
919-446-0	01-2119458049-33	
64742-82-1	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	50 - 100
649-330-00-2	R10 / N; R51-53 / Xn; R65 / R66 / R67	
203-539-1	01-2119457435-35-XXXXX	
107-98-2	1-methoxy-2-propanol	10 - 12.5
603-064-00-3	γ-2-propanol R	
203-604-4	01-2119463878-19-xxxx	
108-67-8	mesitylene	<0.5%
601-025-00-5	R10 / Xi; R37 / N; R51-53	

#### 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

General information	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
<u>Inhalation</u>	Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.
<u>Ingestion</u>	If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.
<u>Skin contact</u>	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 exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage. Vapours form explosive mixtures with air.

**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. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Cool closed containers that are near the source of the fire.

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**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. Vapours form explosive mixtures with air.

**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 formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure -

no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Precautions against fire and explosion:**

Vapours are heavier than air. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**8. Exposure controls/personal protection**

**8.1. Control parameters**

Occupational exposure limit values:

1-methoxy-2-propanol

INDEX No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

TWA: 375 mg/m<sup>3</sup>; 100 ppm

STEL: 560 mg/m<sup>3</sup>; 150 ppm

Additional information

TWA: long-term occupational exposure limit value

STEL: short-term occupational exposure limit value

Ceiling: peak limitation

DNEL:

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

INDEX No. 649-330-00-2 / EC No. 919-446-0 / CAS No. 64742-82-1

DNEL long-term dermal (systemic), Workers: 44 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 330 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 26 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 26 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 71 mg/m<sup>3</sup>

**8.2 Exposure controls:**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection: Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

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) > 480 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 antistatic clothing of natural fibres (cotton) or heat resistant synthetic fibres.
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	Liquid
Colour	Clear
Odour	Characteristic

Safety relevant basis data	Unit	Method	Remark
pH at 20 °C:	-		
Flash point	41 °C	DIN 53213	
Ignition temperature in °C:	194 °C		
Lower explosion limit:	0,6 Vol-%		
Upper explosion limit:	20,4 Vol-%		
Vapour pressure at 20 °C	3,80 mbar		
Density at 20 °C	0,91 g/cm <sup>3</sup>		
Water Solubility (g/L)	partially soluble		
Viscosity at 20 °C	24 s 3 mm	EN ISO 2431	
Solvent separation test (%):	< 3 %		
Boiling point in °C at 101,3 kPa	120 °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

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. Vapours form explosive mixtures with air.

### 10.4. Conditions to avoid

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

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

oral, LD50, Rat: > 15000 mg/kg

Methode: OECD 401

dermal, LD50, Rat: 3400 mg/kg

inhalative (vapours), LC50, Rat: 13100 mg/L (4 h)

Vapours may cause drowsiness and dizziness.

#### Irritant and corrosive effects

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Skin (4 h)

Repeated exposure may cause skin dryness or cracking.

#### Sensitisation

Toxicological data are not available.

#### Specific target organ toxicity

1-methoxy-2-propanol

Specific target organ toxicity (single exposure), drowsiness:

#### Aspiration hazard

Toxicological data are not available.

#### Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. 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.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

## 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

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Daphnia toxicity, EC50,

Daphnia magna (Big water flea): 10 - 22 mg/L (48 h)

Methode: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,6 - 10 mg/L

Methode: OECD 201

## Long-term Ecotoxicity

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Fish toxicity, LC50, Oncorhynchus mykiss: 10 mg/L (96 h)

### 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 classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

## 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

80111 Waste paint and varnish containing organic solvents or other dangerous substances

#### Packaging Recommendation

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

## 14. Transport information

### 14.1. UN Number

1866

### 14.2. UN proper shipping name

Land transport (ADR/RID):	Resin solution
Sea transport (IMDG):	RESIN SOLUTION
Air transport (ICAO-TI / IATA-DGR):	Resin solution

### 14.3. Transport hazard class(es)

3

### 14.4. Packing group

III

### 14.5. Environmental hazards

Land transport (ADR/RID)	UMWELTGEFÄHRDEND
Marine pollutant	p / Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclische Verbindungen, Aromaten (2 - 25 %)



#### 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.

Advice on safe handling: see parts 6 - 8

#### Additional information

##### Land transport (ADR/RID)

Tunnel restriction code D/E

##### Sea transport (IMDG)

EmS-No. F-E, S-E

#### 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: 705

VOC-value (in g/L) ASTM D 2369: 705

##### 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

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical Name	REACH No
203-604-4		
108-67-8	mesitylene	01-2119463878-19-xxxx
203-539-1		
107-98-2	1-methoxy-2-propanol	01-2119457435-35-XXXXX
919-446-0		
64742-82-1	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	01-2119458049-33

### 16. Other information

#### Relevant R-and H-phrases (Number and full text):

Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
R10		Flammable
Xi; R37	Irritant	Irritating to respiratory system.
N; R51-53	Dangerous for the environment	Toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.

R67		Vapours may cause drowsiness and dizziness.
Xn; R65	Harmful	Harmful: may cause lung damage if swallowed.
R66		Repeated exposure may cause skin dryness or cracking.

### **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.