

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

Product name:	Lukas Berlin Paints
Stock codes:	706492, 708604, 708605, 708612, 708614, 708625, 708628, 708630, 708635, 708639, 708647, 708655, 708657, 708666, 708684, 708686, 708692, 708808, 708810, 708822, 708826, 708829, 708850, 708872, 708874, 708909, 708911, 708920, 708921, 708923, 708927, 708934, 708937, 708938, 708945, 708954, 708963, 708965, 708972, 708982, 709604, 709605, 709614, 709628, 709639, 709657, 709684, 709686, 709692, 709808, 709810, 709822, 709826, 709831, 709850, 709874, 709909, 709911, 709920, 709921, 709923, 709934, 709937, 709938, 709954, 709965, 709972, 709982
Relevant identified uses of the substance or mixture:	Water Mixable Artists' Oil Colour
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 hazardous according to regulation (EC) No. 1272/2008 [CLP].

Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
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Classification according to Directive 67/548/EEC or 1999/45/EC

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

N; R50-53	Dangerous for the environment	Very toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.
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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

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local legislation.

Contains: N/A

Supplemental Hazard information (EU) N/A

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



N Dangerous for the environment

Hazard statements

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Precautionary statements

60 This material and its container must be disposed of as hazardous waste. 61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Contains: N/A

Special provisions concerning the labelling of certain mixtures N/A

2.3. Other hazards

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

3. Composition/information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Oil paint

Hazardous ingredients

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

EC No	REACH No.	
CAS No	Chemical name	Wt %
INDEX No	classification:	
215-222-5	01-2119463881-32	
1314-13-2	zinc oxide	20 - 25
030-013-00-7	Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	

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

EC No	REACH No.	
CAS No	Chemical name	Wt %
INDEX No	classification:	
215-222-5	01-2119463881-32	
1314-13-2	zinc oxide	20 - 25
030-013-00-7	N; R50-53	

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).
<u>Skin contact</u>	Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap.
<u>Eye contact</u>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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. Hazardous decomposition by-products may form with exposure to high temperatures.

Hazardous decomposition products: Acrolein

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. Cool closed containers that are near the source of the fire. 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, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

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.

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.

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.

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:

Zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

TWA: 5 mg/m³

STEL: 10 mg/m³

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

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:	If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.
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	White
Odour	Characteristic
pH at 20 °C:	-
Flash point	> 300 °C
Vapour pressure at 20 °C	N/A
Density at 20 °C	1,40 g/cm ³
Water Solubility (g/L)	Completely miscible
Viscosity at 20 °C	30000 mPa·s

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.

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. Hazardous decomposition products: Acrolein. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later.

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, Acrolein

11. Toxicological information

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

zinc oxide oral, LD50, Rat: > 15000 mg/kg
Inhalative (dust and mist), LC50, Rat: > 5,7 mg/L (4 h)

Irritant and corrosive effects

zinc oxide Skin, OECD 404, Rabbit Not an irritant.
Eyes, OECD 405, Rabbit Not an irritant.

Sensitisation

zinc oxide Skin, Guinea pig: not sensitising.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Zinc oxide Germ cell mutagenicity: No experimental indications of genotoxicity in-vitro exist.
Carcinogenicity: No indication of human carcinogenicity.

Practical experience/human evidence

Other observations:

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

Zinc oxide Fish toxicity, LC50, fish: 1,1 - 2250 mg/L (96 h)
Algae toxicity, ErC50, Selenastrum capricornutum: 0,17 mg/L (72 h)

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.

Bioconcentration factor (BCF) 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.

Additional information

Spontaneous ignition possible through autoxidation of cloths soaked in the product.

14. Transport information

14.1. UN Number

3082

14.2. UN proper shipping name

Land transport (ADR/RID): Environmentally hazardous substance, liquid, n.o.s.
(Zincoxide)

Sea transport (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Zincoxide)

Air transport (ICAO-TI / IATA-DGR): Environmentally hazardous substance, liquid, n.o.s.
(Zincoxide)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID) UMWELTGEFÄHRDEND

Marine pollutant p / Zincoxide

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 E

Sea transport (IMDG)

EmS-No. F-A, S-F

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: 3

VOC-value (in g/L) ASTM D 2369: 3

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
215-222-5 1314-13-2	zinc oxide	01-2119463881-32

16. Other information

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

Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
N; R50-53	Dangerous for the environment	Very toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.

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.