

according to Regulation (EC) 1907/2006



Product name : Lascaux Fixativ Spray (2070)
Revision : 01.11.2010 **Version :** 7.0.0
Print date : 01.11.2010

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

Product name

Lascaux Fixativ Spray (2070)

Manufacturer/Supplier

Lascaux Colours & Restauro
Barbara Diethelm AG

Street/P.O.Box

Zürichstrasse 42

Country code/Postal code/Town/City

8306 Brüttsellen

Telephone / Telefax

+41 44 807 41 41 / +41 44 807 41 40

Contact

techsupport@lascaux.ch

Emergency information

+41 44 251 51 51 (Tox Center) _____ + +1 800 468 6942 (for U.S.A.)

02. Hazards identification

Hazard designation

Extremely flammable. · Irritating to eyes. · Vapours may cause drowsiness and dizziness.

Classification : F+ ; R 12 · Xi ; R 36 · R 67

03. Composition/information on ingredients

Chemical characterization

Pure acrylic resin in organic solvents as aerosol.

Hazardous components

PROPAN-2-OL ; EC-No. : 200-661-7; CAS-No. : 67-63-0

Percentage : 35 - 40 %

Classification : F ; R 11 Xi ; R 36 R 67

PROPANE ; CAS-No. : 74-98-6

Percentage : 10 - 15 %

Classification : F+ ; R 12

BUTANE ; CAS-No. : 106-97-8

Percentage : 10 - 15 %

Classification : F+ ; R 12

XYLENE ; EC-No. : 215-535-7; CAS-No. : 1330-20-7

Percentage : 5 - 10 %

Classification : R 10 Xn ; R 20/21 Xi ; R 38

ETHER DERIVATIVE

Percentage : 5 - 10 %

Classification : F ; R 11 Xi ; R 36/37/38

ETHER

Percentage : 5 - 10 %

Classification : F+ ; R 12 Substance with a Community workplace exposure limit.

ESTERDERIVATIVE

Percentage : 5 - 10 %

Classification : R 10 Xi ; R 36



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

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.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

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

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

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.

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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. For personal protection see Section 8. Gas mask in case of spray processing.

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. Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

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. Keep containers dry and cool. Keep containers in a well-ventilated place. Comply with the health and safety at work laws.

Storage class (VCI) : 2B

08. Exposure controls/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)

PROPAN-2-OL ; CAS-No. : 67-63-0

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 200 ppm / 500 mg/m³
Category : 2(II)
Remarks : Y
Version date : 01.06.2008

Specification : TRGS 903 - biological maximum limits (D)
Parameter : Acetone / whole blood / end of exposure or shift
Value : 50 mg/l
Version date : 31.03.2004

Specification : TRGS 903 - biological maximum limits (D)
Parameter : Acetone / urine / end of exposure or shift
Value : 50 mg/l



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Version date : 31.03.2004
PROPANE ; CAS-No. : 74-98-6
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 1000 ppm / 1800 mg/m³
Category : 4(II)
Version date : 01.06.2008
BUTANE ; CAS-No. : 106-97-8
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 1000 ppm / 2400 mg/m³
Category : 4(II)
Version date : 01.06.2008
XYLENE ; CAS-No. : 1330-20-7
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 100 ppm / 440 mg/m³
Category : 2(II)
Remarks : H
Version date : 01.06.2008
Specification : TRGS 903 - biological maximum limits (D)
Parameter : Xylene / whole blood / end of exposure or shift
Value : 1.5 mg/l
Version date : 31.03.2004
Specification : TRGS 903 - biological maximum limits (D)
Parameter : Methylhippuric acid / urine / end of exposure or shift
Value : 2 g/l
Version date : 31.03.2004
Specification : Limit value (Short term) (EC)
Value : 100 ppm / 442 mg/m³
Remarks : H
Version date : 08.06.2000
Specification : Limit value (8 hours) (EC)
Value : 50 ppm / 221 mg/m³
Remarks : H
Version date : 08.06.2000
ETHER DERIVATIVE
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 1000 ppm / 3200 mg/m³
Category : 2(II)
Remarks : Y
Version date : 01.07.2009
ETHER
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 1000 ppm / 1900 mg/m³
Category : 8(II)
Version date : 01.06.2008
Specification : Limit value (8 hours) (EC)
Value : 1000 ppm / 1920 mg/m³
Version date : 08.06.2000
ESTER DERIVATIVE
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 50 ppm / 270 mg/m³
Category : 1(I)
Remarks : Y
Version date : 01.06.2008
Specification : Limit value (Short term) (EC)



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Value : 100 ppm / 550 mg/m³
Remarks : H
Version date : 08.06.2000
Specification : Limit value (8 hours) (EC)
Value : 50 ppm / 275 mg/m³
Remarks : H
Version date : 08.06.2000

Personal protective equipment

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. For prolonged or repeated handling, use barrier creams to protect the exposed areas of the skin.

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. After skin contact wash thoroughly with soap and water or use recognised skin cleanser. Do Not use solvents or thinners.

09. Physical and chemical properties

Image

Form : Aerosol.
Colour : Colourless.
Odour : Characteristic.

Relevant safety data

Boiling point / range :	(1013 hPa)		not applicable
Flash point :		ca.	-18 °C
Vapour pressure :	(50 °C)	ca.	1000 hPa
Density :	(20 °C)	ca.	0.85 g/cm ³
Viscosity :	(20 °C)		not applicable

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory

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system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Additional toxicological information

There no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

12. Ecological information**Additional ecological information****General ecological information**

There are no data available on the product itself. 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.

14. Transport information**Land transport ADR/RID****Classification**

Class : 2 **Kemlercode :** 23
UN number : 1950 **Classification-Code :** 5F
LQ 2 · E 0 · Tunnel restriction code : D

Proper shipping name

AEROSOLS

Packaging**Label :** 2.1**Maritime transport IMDG/GGVSea****Classification**

IMDG-Code : 2.1 **EmS number :** F-D / S-U
UN number : 1950 **Marine Poll. :** -
LQ 1 I · E 0

Proper shipping name

AEROSOLS

Packaging**Label :** 2.1**Air transport ICAO-TI and IATA-DGR****Classification**

Class : 2.1
UN number : 1950
E 0

Proper shipping name

AEROSOLS, FLAMMABLE

Packaging**Label :** 2.1

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15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



F+ ; Extremely flammable



Xi ; Irritant

R-phrases

- 12 Extremely flammable.
- 36 Irritating to eyes.
- 67 Vapours may cause drowsiness and dizziness.

S-phrases

- 2 Keep out of the reach of children.
- 51 Use only in well-ventilated areas.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 23 Do not breathe spray.

Special designation for certain preparations

- 56 Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50 °C.
- 57 Do not pierce or burn, even after use.
- 58 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

National regulatory information

Emission control act ("TA-Luft")

Sum organic substances class I : < 5 %

Water pollution classification

Class : 2 according VwVwS

International regulatory information

U.S.A. Conforms to ASTM D-4236.

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.

Relevant changes

- 08. References to the thresholds · 14. Land transport ADR/RID and GGVS/GGVE · 14.
- Classification (ADR) · 14. Classification (IMDG) · 14. Air transport ICAO-TI and IATA-DGR · 14.
- Classification (ICAO)

R-Phrases of components



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10	Flammable.
11	Highly flammable.
12	Extremely flammable.
20/21	Harmful by inhalation and in contact with skin.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
38	Irritating to skin.
67	Vapours may cause drowsiness and dizziness.

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.
