Page 1 of MSDS for #21714 - LASCAUX FIXATIVE Material Safety Data Sheet according to Regulation (EC) 1907/2006 the spirit of colours Product name : Lascaux Fixativ Spray (2070) Revision : 01.11.2010 Version : 7.0.0 01.11.2010 Print date : 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 Brüttisellen 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 % F; R 11 Xi; R 36 R 67 Classification : PROPANE ; CAS-No. : 74-98-6 10 - 15 % Percentage : Classification : F+; R 12 BUTANE ; CAS-No. : 106-97-8 10 - 15 % Percentage : Classification : F+; R 12 XYLENE ; EC-No. : 215-535-7; CAS-No. : 1330-20-7 5 - 10 % Percentage : R 10 Xn ; R 20/21 Xi ; R 38 Classification : ETHER DERIVATIVE 5 - 10 % Percentage : Classification : F; R 11 Xi; R 36/37/38 FTHFR Percentage : 5 - 10 % F+ ; R 12 Substance with a Community workplace exposure limit. Classification : ESTERDERIVATIVE Percentage : 5 - 10 % R 10 Xi ; R 36 Classification : Page : 1 / 8 (EN/D)

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| Product name : Revision : Print date : | Lascaux Fix 01.11.2010 01.11.2010 | xativ Spray (20 Version : | 7.0.0 | the spirit of colour |
|--|---|-------------------------------------|---|---|
| For the wordin | ng of the listed ris | sk phrases refer t | o section 16. | |
| | | J I I | , seek medical att | ention. Never give anything |
| | alty into the fresh | | arm. Keep at rest. s: lateral position - | Irregular breathing/no call a physician. |
| After skin cor | | ninated clothing | Wash away with s | oan and water and rinse. Do |

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.

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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 preferabily with a detergent; avoid use of solvents.

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according to Regulation (EC) 1907/2006

| Product name : | Lascaux Fi | xativ Spray (| 2070) |
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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 pr.tected 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 saftey at work laws.

Storage class (VCI) : 2B

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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/m ³ |
| Category : | 2(11) |
| 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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Item Numbers: 21714-0300

| Product name : | Lascaux Fixativ Spray (2070) the sp | the spirit of colours | |
|-----------------------------|---|-----------------------|--|
| evision : rint date : | 01.11.2010 Version : 7.0.0 01.11.2010 | | |
| | | | |
| Version date : | 31.03.2004 | | |
| PROPANE ; CAS-No. : | | | |
| Specification : Value : | TRGS 900 - maximum limit in the atmosphere at the workplace (D) 1000 ppm $/$ 1800 mg/m ³ | | |
| Category : | 4(II) | | |
| Version date : | 01.06.2008 | | |
| BUTANE ; CAS-No. : 1 | | | |
| Specification : | TRGS 900 - maximum limit in the atmosphere at the workplace (D) | | |
| Value : | 1000 ppm / 2400 mg/m ³ | | |
| Category : | 4(II) | | |
| Version date : | 01.06.2008 | | |
| XYLENE ; CAS-No. : 1 | | | |
| Specification : | TRGS 900 - maximum limit in the atmosphere at the workplace (D) | | |
| Value : | 100 ppm / 440 mg/m ³ | | |
| Category : | 2(11) | | |
| Remarks : | Н | | |
| 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/m ³ | | |
| Remarks : | Н | | |
| Version date : | 08.06.2000 | | |
| Specification : | Limit value (8 hours) (EC) | | |
| Value : | 50 ppm / 221 mg/m ³ | | |
| Remarks : Version date : | H 08.06.2000 | | |
| ETHER DERIVATIVE | 08.00.2000 | | |
| Specification : | TRGS 900 - maximum limit in the atmosphere at the workplace (D) | | |
| Value : | 1000 ppm / 3200 mg/m^3 | | |
| 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/m ³ | | |
| Category : | 8(11) | | |
| Version date : | 01.06.2008 | | |
| Specification : | Limit value (8 hours) (EC) | | |
| Value : | 1000 ppm / 1920 mg/m ³ | | |
| Version date : | 08.06.2000 | | |
| ESTER DERIVATIVE | | | |
| Specification : | TRGS 900 - maximum limit in the atmosphere at the workplace (D) | | |
| Value : | 50 ppm / 270 mg/m ³ | | |
| Category : | 1(I) | | |
| Remarks : | Υ | | |
| Version date : | 01.06.2008 | | |
| Specification : | Limit value (Short term) (EC) | | |
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CODIN

| | | | | Lasuaux | | |
|---|-------------------------------------|---|-------------|------------------------|---|--|
| Product name : Revision : Print date : | Lascaux 01.11.2010 01.11.2010 | Fixativ Spray Version : | y (2070) | 7.0.0 | the spirit of colours | |
| Value : Remarks : Version date : | 100 ppm H 08.06.200 | / 550 mg/m ³ | | | | |
| Specification : Value : Remarks : | Limit valu 50 ppm H | e (8 hours) (EC) / 275 mg/m ³ | | | | |
| Version date : | 08.06.200 | | | | | |
| Personal protec | | oment | | | | |
| Respiratory pro | | eeded a das m | ask annrou | ed for this nurn | ose must be worn. | |
| Hand protectio Solvent-resister barrier creams t | t protectiv | - | | | epeated handling, use | |
| Eye protection Use safety glass | ses. | | | | | |
| Body protectio | | | | | | |
| synthetic fiber. thorougly with s thinners. 09. Physical and che | All parts of soap and w | the body shou ater or use rec | ld be wash | ed after contact. | high temperature resistan After skin contact wash lot use solvents or | |
| Image | | | | | | |
| Form : | Aero | | | | | |
| Colour : | | ourless. | | | | |
| Odour : | | racteristic. | | | | |
| Relevant safety | | (1012 | | | | |
| Boiling point / rang Flash point : | e : | (1013 hPa) | ca. | not applicable -18 | °C | |
| Vapour pressure : | | (50 °C) | ca. | 1000 | hPa | |
| Density : Viscosity : | | (20 °C) (20 °C) | ca. | 0.85 not applicable | g/cm ³ | |
| 10. Stability and rea | activity | | | | | |
| Conditions to av Stable under reco | | l storage and h | andling cor | nditions(See sect | ion 7). | |
| Materials to avo | oid oxidizing a | U U | Ū | - | materials in order to avoid | |
| Hazardous deco | - | - | nroduce ba | zardous decomr | osition products such as | |

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

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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, fatique, 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.

| Land transport AD | <u>ation</u> DR/RID | | | |
|--|----------------------------------|---------------------------------------|----------------|--------|
| Classification | | | | |
| Class : UN number : LQ 2 · E 0 · Tunnel re | 2 1950 estriction code : D | Kemlercode : Classification-Code : | 23 5F | |
| Proper shipping i AEROSOLS | | | | |
| Packaging Label : | 2.1 | | | |
| Maritime transpor | rt IMDG/GGVSea | | | |
| Classification | | | | |
| IMDG-Code : UN number : LQ 1 I · E 0 | 2.1 1950 | EmS number : Marine Poll. : | F-D / S-U - | |
| Proper shipping I AEROSOLS | name | | | |
| Packaging Label : | 2.1 | | | |
| Air transport ICAC | D-TI and IATA-DO | GR | | |
| Classification | | | | |
| Class : UN number : E 0 | 2.1 1950 | | | |
| Proper shipping a AEROSOLS, FLAMMABLE | | | | |
| Packaging Label : | 2.1 | | | |
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15. Regulatory information

Product name : Revision : Print date :



| | lation (EC) 1907/2006 | Lascaux | |
|------------------------------------|---|------------------------|-----------------------|
| duct name : ision : t date : | Lascaux Fixativ Spray 01.11.2010 Version : 01.11.2010 Version : | (2070) 7.0.0 | the spirit of colours |
| Regulatory inf | formation | | |
| Classification | according to EC directives | 5 | |
| | ol and danger designatior Extremely flammable | 1 | |
| X i; II | rritant | | |
| R-phrases | | | |
| 12 | Extremely flammable. | | |
| 36 | Irritating to eyes. | | |
| 67 | Vapours may cause drov | vsiness and dizziness | |
| C mhasses | | | |

36 Irritating to eyes. 67 Vapours may cause di 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

Pressurized container : protect from sunlight and do not expose to 56 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

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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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| Print date : | 01.11.2010 | | | | |
| | | | | | |



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.

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