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Lascaux Fixative

(TNL 842000)

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

Product name: Lascaux Fixative

Stock codes: 842000

Relevant identified uses of the substance or mixture:

Company name: Lascaux Colours & Restauro

Zürichstrasse 42

Brüttsellen

8306

Tel: +41 44 807 41 41

Fax: +41 44 807 41 40

Email: techsupport@lascaux.ch

Emergency Number: Tox Info Suisse 24-h-emergency number 145 Tel. +41 44 251 51 51 (international)

2. Hazards identification

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319 - Serious eye damage/eye irritation: Category 2A; Causes serious eye irritation.

Skin Irrit. 2; H315 - Skin corrosion/irritation: Category 2; Causes skin irritation.

Flam. Liq. 2; H225 - Flammable liquids: Category 2; Highly flammable liquid and vapour.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

Repr. 2 ; H361d - Reproductive toxicity : Category 2 ; Suspected of damaging the unborn child.

2.2. Label elements:

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



Signal word

Danger

Hazard components for labelling

PROPAN-2-OL ; CAS No. : 67-63-0 1-

METHOXY-2-PROPANOL ; CAS No. : 107-98-2

TOLUENE ; CAS No. : 108-88-3

Hazard Statements

H225 Highly flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up. Special rules for supplemental label elements for certain mixtures

2.3. Other hazards

None

3. Composition/information on ingredients

3.1. Mixtures

Hazardous ingredients

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

Weight fraction: $\geq 45 - < 50 \%$

Classification 1272/2008 [CLP]: Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

1-METHOXY-2-PROPANOL; EC No: 203-539-1; CAS No: 107-98-2

Weight fraction: $\geq 10 - < 15 \%$

Classification 1272/2008 [CLP]: Flam. Liq. 3; H226 STOT SE 3; H336

2-METHOXY-1-METHYLETHYL ACETATE; EC No: 203-603-9; CAS No: 108-65-6

Weight fraction: $\geq 10 - < 15 \%$

Classification 1272/2008 [CLP]: Flam. Liq. 3; H226

Substance with a common (EC) occupational exposure limit value.

DIMETHOXYMETHANE; EC No: 203-714-2; CAS No: 109-87-5

Weight fraction: $\geq 10 - < 15 \%$

Classification 1272/2008 [CLP]: Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

TOLUENE; EC No: 203-625-9; CAS No: 108-88-3

Weight fraction: $\geq 3 - < 5 \%$

Classification 1272/2008 [CLP]: Flam. Liq. 2; H225 Asp. Tox. 1; H304 Repr. 2; H361d STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3 ; H336

Additional information

Full text of H- and EUH-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 attention. Never give anything by mouth to an unconscious person.

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.

Ingestion Contact a doctor immediately. Keep at rest. Do not induce vomiting.

Skin contact Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

Eye contact Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

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

No information available.

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

None

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media Waterjet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for fire-fighters

No one other than trained fire fighters should attempt to fight fires. Appropriate breathing apparatus may be required. Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions:

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

None

7. Handling and storage

7.1. Precautions 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.

Protective measures

Measures to prevent fire Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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.

Hints on joint storage

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

Storage class (D): 3

Storage class (TRGS 510) (D): 3

Further information on 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.

7.3 Specific end use(s)

None

8. Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits

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

Limit value type (country of origin): MAK (CH)
Limit value: 200 ppm / 500 mg/m³
Remark: B SSC
Version: 01.01.2013

Limit value type (country of origin): STEL (CH)
Limit value: 400 ppm/1000 mg/m³
Remark: B SSC
Version: 01.01.2013

Limit value type (country of origin): TRGS 900 (D)
Limit value: 200 ppm/500 mg/m³
Peak limitation: 2(II)
Remark: Y
Version: 02.04.2014

Limit value type (country of origin): TRGS 903 (D)
Parameter: Acetone/Whole blood (B)/End of exposure or end of shift
Limit value: 50 mg/l
Version: 31.03.2004

Limit value type (country of origin): TRGS 903 (D)
Parameter: Acetone/Urine (U)/End of exposure or end of shift
Limit value: 50 mg/l
Version: 31.03.2004

1-METHOXY-2-PROPANOL; CAS No: 107-98-2

Limit value type (country of origin): MAK (CH)
Limit value: 100 ppm/360 mg/m³
Remark: B SSC
Version: 01.01.2013

Limit value type (country of origin) : STEL (CH)
Limit value: 200ppm/720mg/m3
Remark: B SSC
Version: 01.01.2013

Limit value type (country of origin): TRGS 900 (D)
Limit value: 100ppm/370mg/m3
Peak limitation: 2(I)
Remark: Y
Version: 02.04.2014

Limit value type (country of origin): STEL (EC)
Limit value: 150ppm/568mg/m3
Remark: H
Version: 08.06.2000

Limit value type (country of origin): TWA (EC)
Limit value: 100ppm/375mg/m3
Remark: H
Version: 08.06.2000

2-METHOXY-1-METHYLETHYL ACETATE; CAS No: 108-65-6

Limit value type (country of origin): MAK (CH)
Limit value: 50ppm/275mg/m3
Remark: SSC
Version: 01.01.2013

Limit value type (country of origin): STEL (CH)
Limit value: 50ppm/275mg/m3
Remark: # SSC
Version: 01.01.2013

Limit value type (country of origin): TRGS 900 (D)
Limit value: 50ppm/270mg/m3
Peak limitation: 1(I)
Remark: Y
Version: 02.04.2014

Limit value type (country of origin): STEL (EC)
Limit value: 100ppm/550mg/m3
Remark: H
Version: 08.06.2000

Limit value type (country of origin): TWA (EC)
Limit value: 50ppm/275mg/m3
Remark: H
Version: 08.06.2000

DIMETHOXYMETHANE; CAS No: 109-87-5

Limit value type (country of origin): MAK (CH)
Limit value: 1000ppm/3100mg/m3
Remark: SSC
Version: 01.01.2013

Limit value type (country of origin): STEL (CH)
Limit value: 2000ppm/6200mg/m3
Remark: SSC
Version: 01.01.2013

Limit value type (country of origin): TRGS 900 (D)
Limit value: 1000ppm/3200mg/m3
Peak limitation: 2(II)
Remark: Y
Version: 02.04.2014

TOLUENE; CAS No: 108-88-3
Limit value type (country of origin): MAK (CH)
Limit value: 50ppm/190mg/m3
Remark: H OL B RF3 RE3
Version: 01.01.2013

Limit value type (country of origin): STEL (CH)
Limit value: 200ppm/760mg/m3
Remark: H OL B RF3 RE3
Version: 01.01.2013

Limit value type (country of origin): TRGS 900 (D)
Limit value: 50ppm/190mg/m3
Peak limitation: 4(II)
Remark: H, Y
Version: 02.04.2014

Limit value type (country of origin): TRGS 903 (D)
Parameter: Toluene/Whole blood (B)/End of exposure or end of shift
Limit value: 1 mg/l
Version: 31.03.2004

Limit value type (country of origin): TRGS 903 (D)
Parameter: o-Cresol/Urine (U)/End of exposure or end of shift; At long term exposure:
after several previous shifts
Limit value: 3mg/l
Version: 31.03.2004

Limit value type (country of origin): STEL (EC)
Limit value: 100ppm/384mg/m3
Remark: H
Version: 07.02.2006

Limit value type (country of origin): TWA (EC)
Limit value: 50ppm/192mg/m3
Remark: H
Version: 07.02.2006

8.2 Exposure controls:

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 clothing made of natural fibre or of high temperature resistant synthetic fibre. 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.

Occupational exposure controls

Technical measures to prevent exposure

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.

9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Liquid
Colour	Clear, colourless
Odour	Characteristic
pH value:	Not applicable
Initial boiling point (°C)	>42°C
Flash point	-18°C
Vapour pressure (50°C)	Not applicable
Density (20°C)	0.85g/cm ³
Viscosity (20°C)	

9.2. Other information

None

10.Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

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

10.5. Incompatible materials

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

10.6. 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

11.1 Information on toxicological effects

No information available.

11.2 Other adverse effects

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 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.

12. Ecological information

12.1 Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

12.7. Additional information

There is 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.

13.1. Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

08 01 11: waste paint and varnish containing organic solvents or other dangerous substances.

14. Transport information

14.1. UN Number

UN 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)

Land transport (ADR/RID)

Class(es): 3
Classification code: F1
Hazard identification number
(Kemler No.): 33
Tunnel restriction code: D/E
Special provisions: LQ 5 I · E 2 · ADR : III (<= 450 l)
Hazard label(s): 3

Sea transport (IMDG)

Class(es): 3
EmS-No: F-E / S-E
Special provisions: LQ 5 I · E 2 · IMDG 2.3.2.3 (Packing group III <= 30 l)
Hazard label(s): 3

Air transport (ICAO-TI / IATA-DGR)

Class(es): 3
Special provisions: E 2 · IATA 3.3.3.1 (Packing group III <= 30 l)
Hazard label(s): 3

14.4. Packing group

II

14.5. Environmental hazards

Land transport (ADR/RID): No

Sea transport (IMDG): No

Air transport (ICAO-TI / IATA-DGR): No

14.6. Special precautions for user

None

15. Regulatory information

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

National regulations

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

Technische Anleitung Luft (TA-Luft) (D):

Weight fraction (Number 5.2.5. I): <5%

Water hazard class (WGK)

Class (D): 1 (Slightly hazardous to water) Classification according to VwVwS

15.2. Chemical safety assessment

No information available.

16. Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

16.6 Training advice

None

16.7 Additional 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.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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