

**Material Safety Data Sheet**

according to 91/155/EEC



**Product name :** UV Protect 1 gloss (2072)  
**Revision :** 15.02.2007 **Version :** 2.0.0  
**Print date :** 25.06.2007

**01. Identification of substance, preparation and company****Product name**

UV Protect 1 gloss (2072)

**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

**Emergency information**

+41 44 251 51 51 (Tox Center)

++1 800 468 6942 (for U.S.A.)

**02. Composition/information on ingredients****Chemical characterization**

Pure acrylate polymer and UV absorber dissolved in organic solvents as aerosol.

**Hazardous components**

N-BUTYL ACETATE ; EC-No. : 204-658-1 ; CAS-No. : 123-86-1

Percentage : 20 - 25 %

Classification : R 10 R 67 R 66

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

Percentage : 15 - 20 %

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

PROPANE ; EC-No. : 200-827-9 ; CAS-No. : 74-98-6

Percentage : 10 - 15 %

Classification : F+ ; R 12

BUTANE ; EC-No. : 203-448-7 ; CAS-No. : 106-97-8

Percentage : 10 - 15 %

Classification : F+ ; R 12

**ETHER DERIVATIVE**

Percentage : 5 - 10 %

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

DIMETHYL ETHER ; EC-No. : 204-065-8 ; CAS-No. : 115-10-6

Percentage : 5 - 10 %

Classification : F+ ; R 12

**ESTER DERIVATIVE**

Percentage : 5 - 10 %

Classification : R 10 Xi ; R 36

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

**03. Hazards identification****Hazard designation**

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

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

**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**

Ingestion is not considered a potential route of exposure

**05. Fire-fighting measures****Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, 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**

None under normal conditions

**Methods for cleaning up/collecting**

This material and its container must be disposed of in a safe way

**07. Handling and storage****Information for safe handling**

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Prevent the creation of flammable 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**

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 and 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<sup>3</sup>  
**Category :** 2(II)  
**Remarks :** Y  
**Version date :** 01.01.2006  
**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  
**Version date :** 31.03.2004  
 PROPANE ; CAS-No. : 74-98-6

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**Specification :** TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
**Value :** 1000 ppm / 1800 mg/m<sup>3</sup>  
**Category :** 4(II)  
**Version date :** 01.01.2006

**BUTANE ; CAS-No. : 106-97-8**  
**Specification :** TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
**Value :** 1000 ppm / 2400 mg/m<sup>3</sup>  
**Category :** 4(II)  
**Version date :** 01.01.2006

**ETHER DERIVATIVE**  
**Specification :** TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
**Value :** 1000 ppm / 3200 mg/m<sup>3</sup>  
**Category :** 2(II)  
**Version date :** 01.01.2006

**DIMETHYL ETHER ; CAS-No. : 115-10-6**  
**Specification :** TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
**Value :** 1000 ppm / 1900 mg/m<sup>3</sup>  
**Category :** 8(II)  
**Version date :** 01.01.2006

**Specification :** threshold limit value ( EC )  
**Value :** 1000 ppm / 1920 mg/m<sup>3</sup>  
**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<sup>3</sup>  
**Category :** 1(I)  
**Remarks :** Y  
**Version date :** 01.01.2006

**Specification :** Short term exposure limit ( EC )  
**Value :** 100 ppm / 550 mg/m<sup>3</sup>  
**Remarks :** H  
**Version date :** 08.06.2000

**Specification :** threshold limit value ( EC )  
**Value :** 50 ppm / 275 mg/m<sup>3</sup>  
**Remarks :** H  
**Version date :** 09.06.2000

### 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.

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### 09. Physical and chemical properties

#### Image

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

#### Relevant safety data

<b>Boiling point / range :</b>	( 1013 hPa )		not applicable	°C
<b>Flash point :</b>			-42	°C
<b>Vapour pressure :</b>	( 50 °C )	ca.	1000	hPa
<b>Density :</b>	( 20 °C )	ca.	0.8	g/cm <sup>3</sup>
<b>Viscosity :</b>	( 20 °C )		not applicable	mPa.s

### 10. Stability and reactivity

#### Conditions to avoid

Overheating. Open flame. Direct sunlight.  
 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 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.

### 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

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as the medium.

### 14. Transport information

#### Land transport ADR/RID

##### Classification

<b>Class :</b>	2	<b>Kemlercode :</b>	23
<b>Substance number :</b>	1950	<b>Classification-Code :</b>	SF
LQ 2 • Tunnel restriction code : B1D			

##### Proper shipping name

AEROSOLS

##### Packaging

**Label :** 2.1

#### Maritime transport IMDG/GGVSea

##### Classification

<b>IMDG-Code :</b>	2.1	<b>EmS number :</b>	F-D / S-U
<b>UN number :</b>	1950	<b>Marine Poll. :</b>	-
LQ 1, I			

##### Proper shipping name

AEROSOLS

##### Packaging

**Label :** 2.1

#### Air transport ICAO-TI and IATA-DGR

##### Classification

<b>Class :</b>	2.1
<b>UN number :</b>	1950

##### Proper shipping name

AEROSOLS, FLAMMABLE

##### Packaging

**Label :** 2.1

### 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
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- 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 : &lt; 5 %

**Water pollution classification**

Class : 1 according VwVwS

**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. Components with critical values that require monitoring at the workplace (exposure limits)  
 \* 14. Classification (ADR) \* 14. Proper shipping name (ADR) \* 14. Proper shipping name (IMDG)

**R-Phrases of components**

- 10 Flammable.  
 11 Highly flammable.  
 12 Extremely flammable.  
 36 Irritating to eyes.  
 36/37/38 Irritating to eyes, respiratory system and skin.  
 66 Repeated exposure may cause skin dryness or cracking.  
 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.