

## Safety Data Sheet in accordance with Regulation (EC) No 1907/2006

### LAPITEC BIO-CARE PART A

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

Trade name

##### Use of the substance/preparation.

Industry sector : Industrial Performance Chemicals

Type of use : Ceramic

##### Identification of the company

#### Information about the substance/preparation

##### Emergency telephone number :

#### 2. Hazards identification

Highly flammable.

Avoid completely inhalation of aerosols

#### 3. Composition/information on ingredients

##### Chemical characterization

Mixture of partially condensed silanes in alcoholic solution.

##### Hazardous ingredients

Ethanol

Concentration : > 45 %

CAS number : 64-17-5

EINECS number : 200-578-6

Hazard symbols F

R phrases 11

Propan-2-ol

Concentration : < 10 %

CAS number : 67-63-0

EINECS number : 200-661-7

Hazard symbols F Xi

R phrases 11 36 67

The text of the R-phrases is shown in section 16.

##### Lapitec S.p.A.

Via Bassanese 6 - 31050 Veduggio (Treviso) Italy

tel. +39 0423 700239 - fax +39 0423 709540

info@lapitec.it - www.lapitec.it

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## 4. First aid measures

### General information

Remove soiled or soaked clothing immediately

### After inhalation

Remove the casualty into fresh air and keep him calm.

In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

When spray fog inhaled, seek medical aid immediately and show the physician the packing or the packing label.

### After contact with skin

In case of contact with skin wash off immediately with soap and water

### After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

### After ingestion

When swallowed seek medical aid immediately and show the physician the packaging or the label of the packaging.

Do not induce vomiting.

## 5. Fire-fighting measures

### Suitable extinguishing media

water spray jet

alcohol-resistant foam

dry powder

carbon dioxide

### Extinguishing media that must not be used for safety reasons

Full water jet

### Special hazards from the substance itself, its combustion products or from its vapours

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)

Hydrogen fluoride (HF)

Risk of formation of toxic pyrolysis products

### Special protective equipment for firefighting

Use self-contained breathing apparatus

### Further information

Cool endangered containers with water spray jet.

## 6. Accidental release measures

### Personal precautions

Keep away sources of ignition.

Wear personal protective equipment. Unprotected persons must be kept away.

Spreading of the gases specially close to the ground (heavier than air) and in the direction of the wind must be observed.



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## **Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

## **Methods for cleaning up/taking up**

Take up with absorbent material (eg sand, kieselguhr, universal binder)

Pump up larger quantities.

Flush away residues with water.

Containers in which spilt substance has been collected must be adequately labelled

## **7. Handling and storage**

### **Advice on safe handling**

Avoid formation of aerosols.

Provide good room ventilation even at ground level (vapours are heavier than air).

Use explosion-proof apparatus and fittings.

Provide exhaust ventilation.

### **Advice on protection against fire and explosion**

Keep away from sources of ignition

Vapours may form explosive mixtures with air

The heavy vapours can overcome a considerable distance upto the source of ignition.

Risk of explosion if the liquid enters the drains.

Have fire-extinguishers in readiness before opening containers

### **Requirements for storage rooms and vessels**

Provide solvent-resistant and impermeable floor.

Do not use steel containers.

### **Advice on storage compatibility**

Do not store together with oxidizing agents.

### **Further information on storage conditions**

Keep container tightly closed in a cool, well-ventilated place, open and handle carefully.

Recommended storage temp 5-15°C

## **8. Exposure controls / personal protection**

### **Occupational exposure controls**

#### **General protective measures**

Do not inhale aerosols

Do not inhale vapours

Avoid frequent or prolonged contact with skin

#### **Hygiene measures**

Remove soiled or soaked clothing immediately.

Use barrier skin cream.

Do not eat, drink or smoke during work time.

**Respiratory protection** : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure



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Full mask to standard DIN EN 136  
Combination filter A2 B2 E2 K2 Hg/P3, to standard DIN EN 371/372.

The use of filter apparatus presupposes that the environment atmosphere contains at least 17% oxygen by volume, and does not exceed the maximum gas concentration, usually 0.5% by volume. Relevant guidelines to be considered include EN 136/141/143/371/372 as well as other national regulations.

**Hand protection :** For long-term exposure:

Butyl rubber gloves

Minimum breakthrough time / gloves : 480 min

Minimum thickness / gloves 0,7 mm

For short-term exposure (splash protection):

Nitrile rubber gloves.

Minimum breakthrough time / gloves : 30 min

Minimum thickness / gloves 0,4 mm

These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

**Eye protection :** Depending on the risk, wear sufficient eye protection (safety glasses with side protection or goggles, and if necessary, face shield.)

## 9. Physical and chemical properties

<b>Form :</b>	Liquid
<b>Colour :</b>	colourless
<b>Odour :</b>	alcohol-like
<b>Melting point :</b>	approx. -37 °C
<b>Boiling temperature :</b>	approx. 80 °C ( 1.013 mbar) Information applies to the solvent.
<b>Flash point :</b>	16,5 °C Method : DIN/ISO 1516 (closed cup)
<b>Ignition temperature :</b>	399 °C Data relate to solvent
<b>Oxidizing properties :</b>	Not applicable
<b>Self-ignition temperature :</b>	Not applicable
<b>Flammability</b>	
<b>Lower explosion limit :</b>	3,5 %(V) Data relate to solvent
<b>Upper explosion limit :</b>	15 %(V) Data relate to solvent
<b>Combustion number :</b>	Not applicable



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<b>Evaporation rate :</b>	not tested.
<b>Vapour pressure :</b>	58 mbar (20 °C) Data relate to solvent
<b>Density :</b>	0,79 g/cm <sup>3</sup> (20 °C) Method : DIN 51757
<b>Bulk density :</b>	Not applicable
<b>Vapour density in relation to air :</b>	not tested.
<b>Solubility in water : (20 °C)</b>	miscible in all proportions
<b>Soluble in ... :</b>	fat not tested.
<b>pH value :</b>	approx. 5 (20 °C, 10 g/l)
<b>Octanol/water partition coefficient (log Pow) :</b>	not tested.
<b>Viscosity (dynamic) :</b>	< 5 mPa.s (20 °C) Method : DIN 53019
<b>Viscosity (kinematic) :</b>	not tested.

## 10. Stability and reactivity

**Thermal decomposition :** > 350 °C

### Hazardous reactions

Reactions with oxidising agents.

Because of the high vapour pressure, containers are liable to burst if temperature rises.

Evolution of flammable gases/vapours.

Reactions with water and acids.

Reactions with alkalies.

### Hazardous decomposition products

Hydrogen fluoride

Risk of formation of toxic pyrolysis products containing fluorine.

## 11. Toxicological information

<b>Acute oral toxicity :</b>	not tested.
<b>Acute inhalation toxicity :</b>	not tested.
<b>Acute dermal toxicity :</b>	not tested.
<b>Irritant effect on skin :</b>	not tested.
<b>Irritant effect on eyes :</b>	not tested.
<b>Mutagenicity :</b>	not tested.



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## Remarks

The product was classified on the basis of the calculation procedure of the Dangerous Preparations Directive (1999/45/EC).

Avoid completely inhalation of spray mist.

## 12. Ecological information

### Biodegradability :

> 70 % (10 d)

The product is biodegradable.

### Fish toxicity :

LC50 > 1.000 mg/l (48 h, Leuciscus idus)

### Daphnia toxicity :

EC50 > 1.000 mg/l (24 h, Daphnia magna)

## Remarks

Do not allow to enter soil, waterways or waste water

Ecological data given refer to the main component.

## 13. Disposal considerations

### Product

In accordance with local authority regulations, take to chemical/physical treatment plant

### Uncleaned packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

## 14. Transport information

Class:	3
Packing group:	II
UN no.	UN 1987
Primary risk:	3
Hazard no. :	33
Remarks	Shipment permitted
Hazard inducer(s):	Ethanol Isopropyl alcohol

### ADNR

Proper shipping name:	Alcohols, n.o.s.
Class:	3
Packing group:	II
UN no.	UN 1987
Primary risk:	3
Remarks	Shipment permitted

Hazard inducer(s):	Ethanol
Isopropyl alcohol	

### RID

Proper shipping name:	Alcohols, n.o.s.
Class:	3
Packing group:	II



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UN no. UN 1987  
Primary risk: 3  
Hazard no. : 33  
Remarks Shipment permitted  
Hazard inducer(s): Ethanol  
Isopropyl alcohol

## IATA

Proper shipping name: Alcohols, n.o.s.  
Class: 3  
Packing group: II  
UN/ID number: UN 1987  
Primary risk: 3  
Remarks Shipment permitted  
Hazard inducer(s): Ethanol  
Isopropyl alcohol

## IMDG

Proper shipping name: Alcohols, n.o.s.  
Class: 3  
Packing group: II  
UN no. UN 1987  
Primary risk: 3  
Remarks Shipment permitted  
Hazard inducer(s): Ethanol  
Isopropyl alcohol  
EmS : F-E S-D

## 15. Regulatory information

### Labelling in accordance with EC-Directives

hazard warning labelling compulsory

Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC).

### Hazard symbols

F Highly flammable

### Hazardous component(s) to be indicated on label

Propan-2-ol  
Ethanol

### R phrases

11 Highly flammable.

### S phrases

7 Keep container tightly closed.

16 Keep away from sources of ignition --- No smoking.  
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
51 Use only in well-ventilated areas.

### Chemical Safety Assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the ingredients of the preparation, which constitute(s) this product.

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## 16. Other information

Use only for ceramic and glass surfaces.

Use only in applications which produce stable, non-bioavailable polymers

### Text of the R-phrases assigned to the ingredients/components mentioned in section

3 :

11	Highly flammable.
36	Irritating to eyes.
67	Vapours may cause drowsiness and dizziness.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm<sup>3</sup>).

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.

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