

SAFETY DATA SHEET

according to Regulation (EC) No. 1272/2008

LAPITEC BIO-CARE ONE

Nr. of the substance: 0000020

Revision date 22.02.2018

Print date 01.03.2018

Version 10

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

1.1 Product identifier

Trade name : Bio-Care One

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Coating

1.3 Details of the supplier of the safety data sheet

Company : Lapitec S.p.A.
Telephone : +39 0423 703811
Indirizzo e-mail : info@lapitec.it
E-mail address of person responsible for the SDS : info@breton.it
: +39 0423 7691

1.4 Emergency telephone number

Emergency telephone number : +39 0423 7691

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

GHS Classification

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Symbol(s)



Signal word

Danger

Hazard statements

H225
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.

Reazione:

P301 + P330 IF SWALLOWED: rinse mouth.
Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 IF exposed or concerned:
Get medical advice/attention.

Hazardous components which must be listed on the label:

- 475645-84-2 Organic polysilazane compound
- 64742-49-0 low boiling point hydrogen treated naphtha

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3. Composition/information on ingredients

3.1 Mixtures

Chemical characterization

Polysilazane in organic solvent '*Hazardous components*'

Organic polysilazane compound

CAS-No. : 475645-84-2

Classification : Flam. Liq. 2; H225
(REGULATION (CE) No 1272/2008) Acute Tox. 4; H302
Skin Corr. 1A; H314
Aquatic Chronic 3; H412

Concentration [%] : $\geq 20 - \leq 50$

Low boiling point hydrogen treated naphtha

CAS-No. : 64742-49-0

EC-No. : 265-151-9

Classification : Flam. Liq. 2; H225
(REGULATION (CE) No 1272/2008) Skin Irrit. 2; H315
STOT SE 3; H336
Asp. Tox. 1; H304
Aquatic Chronic 3; H412

Concentration [%] : $\geq 25 - < 50$

For explanation of abbreviations see section 16.

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4. First aid measures

4.1 Description of first aid measures

- General advice* : Take off all contaminated clothing immediately. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance. First aider needs to protect himself.
- Inhalation* : Remove the casualty into fresh air and keep him calm. Call in a physician immediately and show him the Safety Data Sheet. No direct breathing aid should be given by the first medical helper.
- Skin contact* : Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately. Show this safety data sheet to the doctor in attendance.
- Eye contact* : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses.
- Ingestion* : Do NOT induce vomiting. If conscious, drink plenty of water. Call a physician immediately. Show this safety data sheet to the doctor in attendance.

4.2 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically

5. Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media* : Foam
Carbon dioxide (CO₂)
- Unsuitable extinguishing media* : Water

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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment : Well closed full protective clothing (coat for firefighters and pants) including helmet. Use self-contained breathing apparatus

Further information : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : See: Exposure controls and personal protection.

6.2 Environmental precautions

Environmental precautions : Do not allow entry to drains, water courses or soil

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up with liquid binding materials and if necessary fill in containers capable of being locked. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4 Reference to other sections

Additional advice : Information regarding Safe handling, see chapter 7. Information regarding personal protective measures see, chapter 8. Information regarding Waste Disposal, see chapter 13.

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7. Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours or spray mist.
Do not get on skin or clothing.
For personal protection see section 8.
Use only in area provided with appropriate exhaust ventilation.
- Advice on protection against explosion : Keep away from sources of ignition - No fire and smoking.
Take precautionary measures against electrostatic charges - earthing necessary during loading operations.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage area : Keep only in the original container.
Open container periodically in order to release pressure which may be generated (ammonia).
- Further information on storage conditions : Keep container tightly closed in a dry and well-ventilated place.
Protect against light.
Do not store at temperatures above 25 °C.
- Advice on common storage : Do not store or transport together with foodstuffs

8. Exposure controls/personal protection

8.1 Control parameters Components with workplace control parameters

Components	low boiling point hydrogen treated naphtha
CAS-No.	64742-49-0
Value	AGW
Control parameters	1.500 mg/m ³
Category short-time exposure	2;(II)
Update	2009-02-16

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Basis	64742-49-0
Further information	Group-AGW: Group exposure limit for hydrocarbon solvent Mixtures. Commission for dangerous substances. See also No. 2.9 of the TRGS 900
Value	AGW
Control parameters	600 mg/m ³
Category short-time exposure	2;(II)
Update	2009-02-16
Basis	DE TRGS 900
Further information	Group-AGW: Group exposure limit for hydrocarbon solvent mixtures. Commission for dangerous substances. See also No. 2.9 of the TRGS 900

8.2 Exposure controls

Engineering measures

See chapter 7; no measures exceeding the ones mentioned are necessary.

Personal protective equipment

Respiratory protection

: Suitable respiratory equipment:
Combination filter A2 B2 E2 K2 Hg/P3, to standard DIN EN 371/372.

Hand protection

: Break through time: > 10 min
Glove thickness: > 0,4 mm
For short-term exposure (splash protection): Nitrile rubber gloves.
Remarks: 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

: Tightly fitting safety glasses

Skin and body protection

: Protective overalls, antistatic
Protective clothing Category 3, type 3 - liquid-tight
Protective clothing Category 3, type 4 - spray-tight

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Hygiene measures : At work do not eat, drink, smoke or take drugs. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream.

Protective measures : Do not breathe vapours, aerosols or mists. Avoid contact with eyes and skin. Observe the usual precautions for handling chemicals.

Environmental exposure controls

General advice : Do not allow entry to drains, water courses or soil

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

Aspetto

Form : liquid
Colour : white
Odour : slight, of ammonia

Safety data

Flash point : 14 °C
Ignition temperature : 250°C, Data relate to solvent
Thermal decomposition : not determined
Lower explosion limit : 0,6 %(V), Data relate to solvent
Upper explosion limit : not determined
Flammability (solid, gas) : not determined
Oxidizing properties : not determined
Auto-ignition temperature : not determined
Burning number : not determined
pH : not reasonable
Freezing point : not determined
Boiling point/boiling range : 180 °C, information applies to solvent
Sublimation point : not determined

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Vapour pressure	: not determined
Density	: 0,86 g/cm ³
Water solubility	: reacts with water
Partition coefficient	: not applicable
Solubility in other solvents	: not determined
Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Relative vapour density	: not determined
Corrosive in contact with metals	: not determined
Evaporation rate	: not determined

10 Stability and reactivity

10.1 Reactivity

The material can slowly hydrolyze in the presence of water to form hydrogen and ammonia gases and condensed siloxane.

10.2 Chemical stability

The material can slowly hydrolyze in the presence of water to form hydrogen and ammonia gases and condensed siloxane., pressure build-u.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Strong acids
Bases

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10.6 Hazardous decomposition products

Hazardous decomposition : ammonia

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : Acute Toxicity Estimate (A TE): 1.000 mg/kg, Calculation method
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitisation : no data available

Components

Organic polysilazane compound

Acute oral toxicity : DL50: > 300 - 2.000 mg/kg, rat, OECD 423
Skin corrosion/irritation : rabbit, Result: Causes burns., OECD 404
Germ cell mutagenicity : Ames test, with and without, Result: negative, Mutagenicity
Genotoxicity in vitro (Escherichia coli - reverse mutation assay)

low boiling point hydrogen treated naphtha

Acute oral toxicity : LD50: > 5.840 mg/kg, rat, OECD Test Guideline 401
Acute inhalation toxicity : LC50: > 25,2 mg/l, 4 h, rat, vapour, OECD Test Guideline 403
Acute dermal toxicity : LD50: > 2.920 mg/kg, rabbit, OECD Test Guideline 402
Skin corrosion/irritation : Result: irritating
STOT - single exposure : Assessment: May cause drowsiness or dizziness.
Aspiration toxicity : May be fatal if swallowed and enters airways.

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12. Ecological information

12.1 Toxicity

Components: Organic polysilazane compound:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 57,1 mg/l
Exposure time: 96 h
Method: OECD 203

Low boiling point hydrogen treated naphtha:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 11,4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : NOEC: 0,17 mg/l
aquatic invertebrates Exposure time: 21 d
(Chronic toxicity) Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components: low boiling point hydrogen treated naphtha:

Biodegradability : Result: rapidly biodegradable
Biodegradation: 81 %
Exposure time: 28 d

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Components:

Low boiling point hydrogen treated naphtha :

Assessment : The substance does not fulfill the PBT criteria. The substance does not fulfill the vPvB criteria.

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12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Product

Do not mix with aqueous wastes or wastes containing protic substances. Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as product waste

14. Transport information

ADR

UN number : 2924
Description of the goods : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
(Organic compound, Petroleum Distillate)
Class : 3
Packing group : II
Classification Code : FC
Hazard Identification Number : 338
Labels : 3(8)
Environmentally hazardous : no

IATA

UN number : 2924
Description of the goods : Flammable liquid, corrosive, n.o.s.
(Organic compound, Petroleum Distillate)
Class : 3
Packing group : II
Labels : 3(8)

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Environmentally hazardous : no

IMDG

UN number : 2924
Description of the goods : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
: (Organic polysilazane compound, Petroleum Distillate)
Class : 3
Packing group : II
Labels : 3(8)
EmS Number 1 : F-E
EmS Number 2 : S-C
Marine pollutant : no

RIO

UN number : 2924
Description of the goods : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
: (Organic compound, Petroleum Distillate)
Class : 3
Packing group : II
Classification Code : FC
Hazard Identification Number : 338
Labels : 3(8)
Environmentally hazardous : no

15. Regulatory information

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

International Chemical Weapons Convention (CWC) : Neither banned nor restricted
Schedules of Toxic Chemicals and Precursors

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : 64742-49-0

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Neither banned nor restricted

Lapitec S.p.A.

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REACH - Candidate List of Substances of Very High for Authorisation (Article 59).

: This product does not contain Concern substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57)

REACH - List of substances subject to authorisation (Annex XIV)

: Neither banned nor restricted

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

: Neither banned nor restricted

Regulation (EC) No 850/2004 on persistent organic pollutants

: Neither banned nor restricted

Water contaminating class

: WGK 2 water endangering Remarks: (Germany)
Classification according VwVwS, Annex 4., Data in accordance with the VwVsS regulation for mixtures.

Other regulations

: Take note of Dir 94/33/EC on the protection of young people at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

15.2 Chemical Safety Assessment

Chemical Safety Assessment is not required for a mixture

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

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H336

May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

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/cm³).

Further information

Further information : Observe national and local legal requirements

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.