

SAFETY DATA SHEET

SOLUZIONE DI SILICONE

Issued on 03/02/2021 - Rel. # 1 on 03/09/2021

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In conformity to Regulation (EU) 2020/878

SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : SOLUZIONE DI SILICONE

Trades code : PHK089

UFI: X330-50J9-2007-GDJS

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

Sectors of use:

Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Laboratory Chemicals

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

LANZONI SRL

Via Zamboni 6

40121 Bologna

tel 051 / 504810

1.4. Emergency telephone number

Tel: +39 0373-290228; Fax +39 0373-290214

CENTRI ANTIVELENO:

CAVp "Osp. Pediatrico Bambino Gesù", Roma, Piazza Sant'Onofrio, 4, 165, 06 68593726;

Az. Osp. Univ. Foggia, Foggia, V.le Luigi Pinto, 1, 71122, 0881-732326;

Az. Osp. "A. Cardarelli", Napoli, Via A. Cardarelli, 9, 80131, 081-7472870;

CAV Policlinico "Umberto I", Roma, V.le del Policlinico, 155, 161, 06-49978000;

CAV Policlinico "A. Gemelli", Roma, Largo Agostino Gemelli, 8, 168, 06-3054343;

Az. Osp. "Careggi" U.O. Tossicologia Medica, Firenze, Largo Brambilla, 3, 50134, 055-7947819;

CAV Centro Nazionale di Informazione Tossicologica, Pavia, Via Salvatore Maugeri, 10, 27100, 0382-24444;

Osp. Niguarda Ca' Granda, Milano, Piazza Ospedale Maggiore, 3, 20162, 02-66101029;

Azienda Ospedaliera Papa Giovanni XXII, Bergamo, Piazza OMS, 1, 24127, 800883300

<http://www.unece.org/>

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS02, GHS07

Hazard Class and Category Code(s):

Flam. Liq. 1, Acute Tox. 4, STOT SE 3

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Hazard statement Code(s):

H224 - Extremely flammable liquid and vapour.

H302 - Harmful if swallowed.

H336 - May cause drowsiness or dizziness.

The product ignites easily even at temperatures below 10 °C.

Harmful product: do not ingest

Warning: Vapours inhalation may cause sleepiness and giddiness

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:



Pictogram, Signal Word Code(s):

GHS02, GHS07 - Danger

Hazard statement Code(s):

H224 - Extremely flammable liquid and vapour.

H302 - Harmful if swallowed.

H336 - May cause drowsiness or dizziness.

Supplemental Hazard statement Code(s):

EUH019 - May form explosive peroxides.

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a POISON CENTER/doctor/... if you feel unwell.

P330 - Rinse mouth.

P370+P378 - In case of fire: Use CO2 to extinguish.

Storage

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container to accordance with local regulations

Contains:

Diethyl ether

UFI: X330-50J9-2007-GDJS

2.3. Other hazards

Substance/mixture meets the criteria for PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

SECTION3. Composition/information on ingredients**3.1 Substances**

Irrrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Diethyl ether - FEMA -	>= 75 < 100%	EUH019; EUH066; Flam. Liq. 1, H224; Acute Tox. 4, H302; STOT SE 3, H336	603-022-00-4	60-29-7	200-467-2	01-2119535 785-29-XXX X
2,6-di-tert-Butyl-p-cresol - FEMA - substance for which there are Community workplace exposure limits	< 0,1%	Aquatic Chronic 1, H410	-	128-37-0	204-881-4	01-2119480 433-40-000 0

SECTION4. First aid measures**4.1. Description of first aid measures**

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated room.
CALL A PHYSICIAN.

If breathing has stopped, give artificial respiration.

Direct contact with skin (of the pure product):

In case of contact with skin, wash immediately with: water

Warning: This product is toxic to skin contact. Consult a physician.

Direct contact with eyes (of the pure product):

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

The product is harmful and can cause irreversible damages even following a single exposure if swallowed.
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

No data available.

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

IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.

SECTION5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

In the case of fire use: powder, CO₂

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors
Wear protective gloves/protective clothing/eye protection/face protection.
Use extreme caution when handling the product. Avoid shock or friction.
In residential areas do not use on large surfaces.
Do not smoke at work
At work do not eat or drink.
Do not eat, drink or smoke when using this product.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and direct exposure of sunlight.
Keep containers tightly closed.
Always store in well ventilated areas.
Never close the container tightly, leave a chance to vent
Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.
Keep away from flames and spark. Avoid static discharges.

Protect from heat and direct sun exposure. Operate in well-ventilated. Keep away from sources of ignition-no smoking.
Take preventive measures to avoid electrostatic charges. Avoid contact with eyes. Do not inhale vapors or mists.

7.3. Specific end use(s)

Public domain (administration, education, entertainment, services, craftsmen):
Apart from the uses described in section 1.2 no other specific uses covered.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

Diethyl ether
**** Not translated ****

2,6-di-tert-Butyl-p-cresol:
ACGIH - TWA(8h): 2 mg/m³ - Note: (IFV), A4 - URT irr HSE - TWA(8h): 10 mg/m³

8.2. Exposure controls

Appropriate engineering controls:
Public domain (administration, education, entertainment, services, craftsmen):
Handle in accordance with good hygiene practices and safety. Wash hands before breaks and at the end of workday.

Individual protection measures:

(a) Eye / face protection
Wear mask

(b) Skin protection

(i) Hand protection
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

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(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Diethyl ether

**** Not translated ****

2,6-di-terz-butyl-p-cresolo

**** Not translated ****

SECTION9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	COLORED LIQUID	
Colour	Irrelevant	
Odour	Not determined	
Odour threshold	Not determined	
pH	Not determined	
Melting point/freezing point	Not determined	
Initial boiling point and boiling range	Not determined	
Flash point	Not determined	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	
Upper/lower flammability or explosive limits	Not determined	
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	Not determined	
Solubility	Not determined	
Water solubility	Not determined	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
Viscosity	Not determined	
Explosive properties	Not determined	
Oxidising properties	Not determined	

9.2. Other information

No data available.

SECTION10. Stability and reactivity

10.1. Reactivity

Diethyl ether

**** Not translated ****

2,6-di-terz-butil-p-cresolo

**** Not translated ****

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Diethyl ether

**** Not translated ****

2,6-di-terz-butil-p-cresolo

**** Not translated ****

Avoid static discharges.

Avoid contact with combustible materials. The product could catch fire.
heat, open flames, sparks or hot surfaces.**10.5. Incompatible materials**

It can ignite in contact with oxidants mineral acids, strong oxidants agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information**11.1. Information on toxicological effects**

ATE(mix) oral = 510,2 mg/kg

ATE(mix) dermal = ∞ ATE(mix) inhal = ∞

- (a) acute toxicity: Harmful product: do not ingest
- (b) skin corrosion/irritation based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: Warning: Vapours inhalation may cause sleepiness and giddiness
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

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(j) aspiration hazard: based on available data, the classification criteria are not met.

Diethyl ether

**** Not translated ****

2,6-di-tert-Butyl-p-cresol:

LD50 (rat) Oral (mg/kg body weight) = 890

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Diethyl ether

**** Not translated ****

2,6-di-tert-Butyl-p-cresol:

C(E)L50 (mg/l) = 5,3

2,6-di-terz-butyl-p-cresolo

**** Not translated ****

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Diethyl ether

**** Not translated ****

2,6-di-terz-butyl-p-cresolo

**** Not translated ****

12.3. Bioaccumulative potential

Diethyl ether

**** Not translated ****

2,6-di-terz-butyl-p-cresolo

**** Not translated ****

12.4. Mobility in soil

Diethyl ether

**** Not translated ****

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information**14.1. UN number**

ADR/RID/IMDG/ICAO-IATA: 1155

**14.2. UN proper shipping name**

ADR/RID/IMDG: ETERE DIETILICO (ETERE ETILICO)

ADR/RID/IMDG: DIETHYL ETHER (ETHYL ETHER)

ICAO-IATA: DIETHYL ETHER (ETHYL ETHER)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 3

ADR/RID/IMDG/ICAO-IATA: Label : 3

ADR: Tunnel restriction code : D/E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 0

IMDG - EmS : F-E, S-D

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: I

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : Not

14.6. Special precautions for user

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement and the provisions A.D.R national regulations. The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

D.Lgs. 3/2/1997 n. 52 (Classificazione, imballaggio ed etichettatura sostanze pericolose). D.Lgs. 14/3/2003 n. 65 (Classificazione, imballaggio ed etichettatura preparati pericolosi). D.Lgs. 2/2/2002 n. 25 (Rischi derivanti da agenti chimici durante il lavoro). D.M. Lavoro 26/02/2004 (Limiti di esposizione professionali); D.M. 03/04/2007 (Attuazione della direttiva n. 2006/8/CE). Regolamento (CE) n. 1907/2006 (REACH), Regolamento (CE) n. 1272/2008 (CLP), Regolamento (CE) n. 790/2009. Regolamento (UE) n. 286/2011 (ATP 2 CLP).
. D.Lgs. 21 settembre 2005 n. 238 (Direttiva Seveso Ter). Regolamento (CE) n. 648/2004 del Parlamento europeo e del Consiglio, del 31 marzo 2004, relativo ai detergenti. Regolamento (CE) 453/2010 del Parlamento Europeo. DLgs 334/99 - Attività a rischio di incidenti rilevanti. DLgs 152/99 - Tutela delle acque - scarichi idrici. DPR 203/88 - Emissioni in atmosfera. DLgs 22/97 - Norme sui rifiuti, sugli imballaggi e sui rifiuti di imballaggio.

Principali fonti bibliografiche:

ECDIN : Environmental Chemicals Data and Information Network- Joint Research Centre, Commission of the European Communities

SAX's Dangerous Properties of Industrial Materials - Eight Edition - Van Nostrand Reinold

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

CESIO - Classification and labelling of anionic, nonionic surfactants (1990)

Direttiva 67/548 29° Adeguamento

Direttiva 1999/45/CE

Direttiva 2001/60/CE

Regolamento (CE) 1272/2008 CLP

Regolamento (CE) 1907/2006 REACH

Regolamento (CE) 453/2010

Regolamento (CE) 1223/2009

Regolamento (CE) n. 648/2004 del Parlamento europeo e del Consiglio, del 31 marzo 2004

Regolamento (CE) n. 790/2009 (ATP 1 CLP) e (UE) n. 758/2013

Direttiva 76/768/CEE

The Merck Index Ed. 10

HADLING Chemical Safety

European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc/existing-chemicals/>

Sigma-Aldrich S.r.l

Sigma-Aldrich Co. LLC.

Gruppo BASF

Istituto Superiore di Sanità Viale Regina Elena 299 - 00161 - Roma (I)

A.C.G.I.H. – Documentary of the Threshold Limit Values

SIGMA-ALDRICH – Library of Chemical Safety Data

BOZZA MARUBINI M. et al. – Intossicazioni acute. Meccanismi, diagnosi e terapia. OEMF

BREThERICK – Bretherick's Handbook of Reactive Chemical Hazards

ECETOC – Monographs, Technical Reports, Special Reports, Documents, Joint Assessment of Commodity Chemicals

EPA – Chemical Emergency Preparedness Program – Interim Guidance – Chemical profiles

IARC – Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans

PATTY – Industrial Hygiene and Toxicology (3 Ed.)

SAX – Dangerous Properties of Industrial Materials (7 Ed.)

INRS – Fiche toxicologique (CD-ROM ed. 2002)

INRS – Réaction Chimiques Dangereuses

IPCS – Environmental Health Criteria

IPCS – Concise International Chemical Assessment Document

ITI – Toxic and Hazardous Industrial Chemical Safety Manual

IUCLID – International Uniform Chemical Information Database (CD-ROM)

KEITH & WALTERS – Compendium of Safety Data Sheets for Research and Industrial Chemicals

VCH

VERSCHUEREN K. – Handbook of Environmental Data on Organic Chemicals – 2 E(5.)

MERCK & Co. – The Merck Index

NIOSH/RTECS – Registry of Toxic Effects of Chemical Substances

WEAST – Handbook of Chemistry and Physics

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NFPA – Fire Protection Guide for Hazardous Materials, National Fire Protection Boston – National Fire Codes Vol 13

DUTCH ASSOCIATION OF SAFETY EXPERTS – Handling Chemicals Safety

Seveso category:

P5a - FLAMMABLE LIQUIDS

REGULATION (EU) No 1357/2014 - waste:

HP3 - Flammable

HP5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3

H224 = Extremely flammable liquid and vapour.

H302 = Harmful if swallowed.

H336 = May cause drowsiness or dizziness.

H410 = Very toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

The information shall relate to product knowledge at the date of this card. The product must not be used for purposes other than those specified.

The product falls into the category of cosmetics and safety assessment filed in the Company Headquarters at the disposal of the competent Authority, in accordance with legislative decree 126/97

The information contained in this material safety data sheet are based on our current knowledge and laws of EU and national, while the users' work conditions outside our knowledge and control; However cannot be exhaustive and must therefore be regarded as indicative. The product is used for purposes other than those listed. Liability of the user and always comply with hygiene, security and protection of the environment required by current laws.

This data sheet cancels and replaces any previous edition. ***