SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	SEAL
Commercial code:	WHITE: 40.105 BLACK: 40.205

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

Sealant for various applications.
Use: Professional, industrial

1.3 Details of the supplier of the safety data sheet

Company name:	Silpar TK snc
Address:	Via Rosa Luxemburg 12/14 10093 - Collegno (TO)
Telephone:	+39 011 7791177
Fax:	+39 011 7791177
Email:	sicurezza@silpartkline.com

1.4 Emergency telephone number

CAVp "Osp. Pediatrico Bambino Gesù - Roma	Tel. +39 06 68593726
Az. Osp. Univ. Foggia	Tel. +39 0881 732326
Az. Osp. "A. Cardarelli" – Napoli	Tel. +39 081 7472870
CAV Policlinico "Umberto I" – Roma	Tel. +39 06 49978000
CAV Policlinico "A. Gemelli" – Roma	Tel. +39 06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze	Tel. +39 055 7947819
CAV Centro Nazionale di Informazione Tossicologica – Pavia	Tel. +39 0382 24444
Osp. Niguarda Ca' Granda – Milano	Tel. +39 02 66101029
Azienda Ospedaliera Papa Giovanni XXII – Bergamo	Tel. +39 800 883300
Azienda Ospedaliera Universitaria Integrata Verona	Tel. +39 800 011858

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP).
The product, however, contains dangerous substances in concentrations such as to be declared in section n.3, and requires a safety data sheet with adequate information, in compliance with Regulation (EU) 878/2020.

2.2 Label elements

Hazard pictograms: -

Signal word: -

Hazard statements:
EUH210 Safety data sheet available on request.

Precautionary statements: -

2.3 Other hazards

Substance vPvB: None - Substance PBT: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

1.CAS 2.N° EC 3.N° Index 4.N° REACH	Name	Weight (%)	Classification 1272/2008 (CLP)
1. 2768-02-7 2. 220-449-8 3. Not Available 4. 01-2119513215-52-XXXX	Vinyltrimethoxysilane	1 ≤ x < 5	Flam. Liq. 3 H226 Acute Tox. 4 H332 LC50 Vapor inhalation: 16.8 mg/l/4h

The full text of the H phrases is given in section 16 of the safety data sheet

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: In case of contact with the eyes, rinse them with water for an adequate amount of time and keeping the eyelids open, then immediately consult an ophthalmologist.
Protect the uninjured eye.

Skin contact: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

Ingestion: Do not under any circumstances induce vomiting. SEEK MEDICAL EXAMINATION IMMEDIATELY

Inhalation: Remove to open air. If unwell, contact a doctor.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the contained substances, see chap. 11.

4.3 Indication of any immediate medical attention and special treatment needed

In the event of an accident or discomfort, consult a doctor immediately (if possible show the instructions for use or the safety data sheet).

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water.

5.2 Special hazards arising from the substance or mixture

DANGERS DUE TO EXPOSURE IN THE EVENT OF FIRE
Avoid breathing combustion products.

5.3 Advice for firefighters

GENERAL INFORMATIONS
Cool the containers with jets of water to avoid decomposition of the product and the development of substances potentially dangerous to health.
Always wear full fire protection equipment. Collect extinguishing water that must not be discharged into sewers.
Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.
EQUIPMENT
Normal clothing for fighting fire, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire fighter boots (HO A29 or A30).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

In case of vapors or dust dispersed in the air, wear respiratory protection. These indications are valid both for workers and for emergency interventions.

6.2 Environmental precautions
Prevent the product from spilling or entering drains or water courses.

6.3 Methods and material for containment and cleaning up
Collect the spilled product and place it in containers for recovery or disposal. Remove the residue with jets of water if there are no contraindications.
Provide sufficient ventilation of the area affected by the leak. Evaluate the compatibility of the container to be used with the product, checking section 10. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4 Reference to other sections
Refer to sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Handle the product after consulting all other sections of this safety data sheet. Avoid dispersing the product into the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities
Store only in the original container. Keep containers closed, in a well-ventilated place, away from direct sunlight.
Store containers away from any incompatible materials, checking section 10.

7.3 Specific end use(s)
See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics
TLV TWA - 1200 mg/m3
butane - CAS: 106-97-8
ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair
propane - CAS: 74-98-6
ACGIH - Notes: (D, EX) - Asphyxia
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics
TLV TWA - 197 ppm (1200 mg/m3)
isobutane - CAS: 75-28-5
ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair
2-(2-butoxyethoxy)ethyl acetate; diethyleneglycol(mono)butyl ether acetate - CAS: 124-17-4

Derived No Effect Level (DNEL)
Vinyltrimethoxysilane
Inhalation4.9 mg/m^3 (Systemic, chronic)
Demica 0.3 mg/m^3 (Systemic, chronic)
Inhalation 1.04 mg/m^3 (Systemic, chronic) *
Oral 0.3 mg/kg bw/day (Systemic, chronic) *
Demica 0.69 mg/m^3 (Systemic, chronic) *

* Values for the general population

PNEC exposure limit values
Vinyltrimethoxysilane
0.34 mg/l (Fresh water)
0.27 mg/kg mg/l (sediments in fresh water)

3.39 µg/L (Sea water)
110 mg/l (STP)

VND = hazard identified but no DNEL/PNEC available; NEA = no expected exposure; NPI = no hazard identified.

Limit values for air quality in the workplace:
CAS No.: Product Type mg/m3 ppm
67-56-1 Methanol TLV_IT 200.0

Technical controls
Ensure adequate ventilation, especially in enclosed areas.
Make sure eye washes and showers are close to the workplace.
Use anti-exposure equipment
Provide an emergency exit.

8.2 Exposure controls

Hands protection	Protect hands with category III work gloves (ref. Standard EN 374). For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.
Respiratory protection	If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a mask with a type B filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, combined filters must be provided. The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by masks is limited. In the event that the substance considered is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. standard EN 137) or a self-contained breathing apparatus external air (ref. EN 138 standard). For the correct choice of respiratory protection device, refer to the EN 529 standard.
Eye and face protection	Wear protective goggles (see standard EN 166).
Body and skin protection:	Wear clean antistatic clothing with consistent coverage and antistatic safety footwear for professional use of category S2 (Type EN20345). In case of prolonged contact, use protective clothing impermeable to this material: shirts, aprons or full coveralls (Type EN 340-EN13034).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Pasty
Colour:	Whyte/Black
Odour:	Slight
Odour threshold:	N.A.
pH:	N.A.
Melting point/freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Flash point:	> 200 ° C
Evaporation rate:	N.A.
Flammability (solid, gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	N.A.

Vapour density (Air=1):	1,5 mg/l Temperatura: 20 °C
Relative density (Water=1):	N.A.
Solubility(ies):	Insoluble in water
Partition coefficient: n-octanol/water:	N.A.
Auto-ignition temperature (°C):	N.A.
Decomposition temperature:	N.A.
Dynamic viscosity:	12000 Method: Rheometric (Kinexus) - Pa.s Temperature: 25°C
Explosive properties:	Non-explosive product
Oxidising properties:	N.A.

9.2 Other information
Information not available

9.2.1. Information with regard to physical hazard classes
Information not available

9.2.2. Other safety characteristics
Information not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
There are no particular dangers of reaction with other substances under normal conditions of use.

10.2 Chemical stability
The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions
Under normal conditions of use and storage, dangerous reactions are not foreseeable.

10.4 Conditions to avoid
Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any source of ignition.

10.5 Incompatible materials
The reaction occurs with the formation of methanol.

10.6 Hazardous decomposition products
Due to thermal decomposition or in the event of fire, gases and vapors potentially harmful to health can be released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Unless otherwise specified, the data required by Regulation (EU) 878/2020 indicated below are to be understood as N.A .:

General indications
The data relating to the overall product has priority over the data of the individual ingredients.
ACUTE TOXICITY
Product data:
Route of exposure: oral and epidermal.
LD50: > 2000 mg/kg - Rat
Source: conclusion by analogy
Skin corrosion/irritation
Assessment:
Based on the available data, clinically relevant skin irritation is not expected. Temporary symptoms cannot be ruled out
of irritation if the adhesive product is removed mechanically after contact.
Result/Effect: non-irritating (rabbit) .

Source: conclusion by analogy.
Serious eye damage/eye irritation
Assessment:
Based on the available data, clinically relevant eye irritation is not expected. Temporary symptoms cannot be ruled out
of irritation if the adhesive product is removed mechanically after contact.
Product data:
Result/Effect: non-irritating (rabbit).
Source: conclusion by analogy.
Respiratory or skin sensitization
Product data:
Route of exposure: epidermal
Result: non-sensitizing
Species: Guinea pig; Bluehler.
Source: conclusion by analogy OECD 406.
Germ cell mutagenicity
Assessment:
At this end point, no toxicological experimental data are available for the overall product.
Carcinogenicity
Assessment:
At this end point, no toxicological experimental data are available for the overall product.
Reproductive toxicity
Assessment:
At this end point, no toxicological experimental data are available for the overall product.
Specific target organ toxicity (single exposure)
Assessment:
At this end point, no toxicological experimental data are available for the overall product.
Specific target organ toxicity (repeated exposure)
Assessment:
At this end point, no toxicological experimental data are available for the overall product.
Danger in case of aspiration
Assessment:
Given the physico-chemical properties of the product, there is no risk of aspiration.
More information
Metabolism, kinetics, mechanism of action and other information
Information not available
Information on likely routes of exposure
Information not available
Immediate, delayed and chronic effects resulting from short- and long-term exposures
Information not available
Interactive effects
Information not available
ACUTE TOXICITY
ATE (Inhalation - vapours) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: Not classified (no relevant component)
ATE (Dermal) of the mixture: Not classified (no relevant component)
Vinyltrimethoxysilane
LD50 (Dermal): 3200 mg/kg Rabbit
LD50 (Oral): 7236 mg/kg Rat
LC50 (Inhalation of vapours): 16.8 mg/l/4h Rat
SKIN CORROSION / SKIN IRRITATION
It does not meet the classification criteria for this hazard class
SERIOUS EYE DAMAGE / EYE IRRITATION
It does not meet the classification criteria for this hazard class
RESPIRATORY OR SKIN SENSITIZATION
It does not meet the classification criteria for this hazard class

Respiratory sensitization
Information not available
Skin sensitization
Information not available
MUTAGENICITY ON GERM CELLS
It does not meet the classification criteria for this hazard class
CARCINOGENICITY
It does not meet the classification criteria for this hazard class
REPRODUCTION TOXICITY
It does not meet the classification criteria for this hazard class
Harmful effects on sexual function and fertility
Information not available
Harmful effects on the development of offspring
Information not available
Effects on or through breastfeeding
Information not available
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE
It does not meet the classification criteria for this hazard class
Target organs
Information not available
Route of exposure
Information not available
SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE
It does not meet the classification criteria for this hazard class
Target organs
Information not available
Route of exposure
Information not available
DANGER IN CASE OF ASPIRATION
It does not meet the classification criteria for this hazard class

11.2 Information on other hazards
Informatino not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Vinyltrimethoxysilane
LC50 - Fish 191 mg/l/96h Oncorhynchus mykiss
EC50 - Crustaceans 169 mg/l/48h Daphnia magna
NOEC Chronic Crustaceans 28 mg/l Daphnia magna (21 day)
Assessment: based on ecotoxicological studies with similar products in consideration of the physicochemical properties: this product is not expected to have any effects relevant for classification on aquatic organisms. At the current state of experience, no negative effects on purification plants are to be expected.

12.2 Persistence and degradability
Vinyltrimethoxysilane
NOT rapidly degradable
Assessment:
Hydrolysis products: methanol and silanol and/or siloxanol compounds. Silicone content: Elimination by absorption on activated mud.
Not biodegradable. The hydrolysis product (methanol) is easily biodegradable.

12.3 Bioaccumulative potential
Assessment:
Unlikely biological accumulation.

12.4 Mobility in soil

Assessment:
Insoluble in water.

12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers and waterways. Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

N.A.

14.2 UN proper shipping name

N.A.

14.3 Transport hazard class(es)

N.A.

14.4 Packing group

N.A.

14.5 Environmental hazards

N.A.

14.6 Special precautions for user

N.A.

14.7 Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC:
None.

Restrictions relating to the product or substances contained according to Annex XVII Regulation (EC) 1907/2006
Product
Point 40
Substances contained
Point 75
Point 52 Di-isonoonyl phthalate

REACH Reg.: 01-2119430798-28
Regulation (EU) 2019/1148 - relating to the placing on the market and use of

Substances subject to authorisarion (Annex XIV REACH).
None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None.

Substances subject to the Rotterdam Convention:
None.

Substances subject to the Stockholm Convention:
None.

Healthcare controls.
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out for the mixture

SECTION 16: OTHER INFORMATION

Full text of H codes mentioned in sections 2 - 3
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
EUH210 Safety data sheet available on request.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

Classification and procedure used to derive it according to regulation (EC) 1272/2008 [CLP] in relation to mixture:
Aerosols 1, H222, H229 - Based on experimental evidence
Aquatic Chronic 3 H412 - Calculation method

GENERAL BIBLIOGRAPHY

Regulation (EU) 1907/2006 of the European Parliament (REACH)
Regulation (EU) 1272/2008 of the European Parliament (CLP)
Regulation (EU) 2020/878 (Annex II REACH Regulation)
Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
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Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
Regulation (EU) 2016/1179 (IX Atp. CLP)
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Regulation (EU) 2019/1148
Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
Regulation (EU) 2020/878 of the European Parliament

The Merck Index. - 10th Edition
Handling Chemical Safety
INRS - Fiche Toxicologique (toxicological sheet)
Patty - Industrial Hygiene and Toxicology
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
ECHA website

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

Changes compared to the previous version:
01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16