

**BELLINZONI S.R.L.**

Revision nr. 10

Dated 02/05/2023

Printed on 02/05/2023

Page n. 1/16

Replaced revision:9 (Printed on: 29/10/2020)

**VX-SL**

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

**1.1. Product identifier**

Code: 004AVX - 004AVX01 - 004AVX05 - 004AVX20 - 004AVX30 - 004AVX200  
Product name: VX-SL  
UFI: F9U0-U0CM-F00K-28NE

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

Intended use: Liquid silicone based product for polishing marble and granite surfaces

| Identified Uses | Industrial | Professional                                         | Consumer |
|-----------------|------------|------------------------------------------------------|----------|
| Wax             | -          | ERC: 8c, 8f.<br>PROC: 10, 8a.<br>PC: 31.<br>LCS: PW. | -        |

**1.3. Details of the supplier of the safety data sheet**

Name: BELLINZONI S.R.L.  
Full address: Via Mezzano 64  
District and Country: 28069 Trecate (NO)  
Italy  
Tel. +39 0321 770558

e-mail address of the competent person

responsible for the Safety Data Sheet  
Supplier:

laboratorio@bellinzoni.com  
BELLINZONI S.r.l.

**1.4. Emergency telephone number**

For urgent inquiries refer to

- CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA - Roma - Piazza Sant'Onofrio, 4 CAP: 00165 - Telefono: 06 68593726 - Responsabile: Marco Marano
- Az. Osp. Univ. Foggia - Foggia - V.le Luigi Pinto, 1 - CAP: 71122 - Telefono: 800183459 - Responsabile: Anna Lepore
- Az. Osp. "A. Cardarelli" - Napoli - Via A. Cardarelli, 9 - CAP: 80131081 - Telefono: 5453333 - Responsabile: Romolo Villani
- CAV Policlinico "Umberto I" - Roma - V.le del Policlinico, 155 - CAP: 161 - Telefono: 06-49978000 - Responsabile: M. Caterina Grassi
- CAV Policlinico "A. Gemelli" - Roma - Largo Agostino Gemelli, 8 - CAP: 168 - Telefono: 06-3054343 - Responsabile: Alessandro Barelli
- Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze - Largo Brambilla, 3 - CAP: 50134 - Telefono: 055-7947819 - Responsabile: Francesco Gambassi
- CAV Centro Nazionale di Informazione Tossicologica - Pavia - Via Salvatore Maugeri, 10 - CAP: 27100 - Telefono: 0382-24444 - Responsabile: Carlo Locatelli
- Osp. Niguarda Ca' Granda - Milano - Piazza Ospedale Maggiore, 3 - CAP: 20162 - Telefono: 02-66101029 - Responsabile: Franca Davanzo
- Azienda Ospedaliera Papa Giovanni XXII - Bergamo - Piazza OMS, 1 - CAP: 24127 - Telefono: 800883300 - Responsabile: Bacis Giuseppe
- Azienda Ospedaliera Integrata Verona - Verona - Piazzale Aristide Stefani, 1 - CAP: 37126 - Telefono 800011858

|                                                                                 |                          |                                                                                                           |
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|  | <b>BELLINZONI S.R.L.</b> | Revision nr. 10                                                                                           |
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## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

|                                                                    |      |                                                  |
|--------------------------------------------------------------------|------|--------------------------------------------------|
| Carcinogenicity, category 2                                        | H351 | Suspected of causing cancer.                     |
| Eye irritation, category 2                                         | H319 | Causes serious eye irritation.                   |
| Skin irritation, category 2                                        | H315 | Causes skin irritation.                          |
| Skin sensitization, category 1                                     | H317 | May cause an allergic skin reaction.             |
| Specific target organ toxicity - single exposure, category 3       | H336 | May cause drowsiness or dizziness.               |
| Hazardous to the aquatic environment, chronic toxicity, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

|               |                                                  |
|---------------|--------------------------------------------------|
| <b>H351</b>   | Suspected of causing cancer.                     |
| <b>H319</b>   | Causes serious eye irritation.                   |
| <b>H315</b>   | Causes skin irritation.                          |
| <b>H317</b>   | May cause an allergic skin reaction.             |
| <b>H336</b>   | May cause drowsiness or dizziness.               |
| <b>H411</b>   | Toxic to aquatic life with long lasting effects. |
| <b>EUH210</b> | Safety data sheet available on request.          |

Precautionary statements:

|                  |                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------|
| <b>P201</b>      | Obtain special instructions before use.                                                                        |
| <b>P202</b>      | Do not handle until all safety precautions have been read and understood.                                      |
| <b>P308+P313</b> | IF exposed or concerned: Get medical advice / attention.                                                       |
| <b>P312</b>      | Call a POISON CENTRE / doctor / if you feel unwell.                                                            |
| <b>P403+P233</b> | Store in a well-ventilated place. Keep container tightly closed.                                               |
| <b>P501</b>      | Dispose of the product / container in accordance with local / regional / national / international regulations. |

Contains: TETRACHLOROETHYLENE

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

|                                                                                 |                   |                                                                                                           |
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## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

| Identification              | x = Conc. %      | Classification (EC) 1272/2008 (CLP)                                                                            |
|-----------------------------|------------------|----------------------------------------------------------------------------------------------------------------|
| <b>TETRACHLOROETHYLENE</b>  |                  |                                                                                                                |
| INDEX 602-028-00-4          | $90 \leq x < 95$ | Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, STOT SE 3 H336, Aquatic Chronic 2 H411 |
| EC 204-825-9                |                  |                                                                                                                |
| CAS 127-18-4                |                  |                                                                                                                |
| REACH Reg. 01-2119475329-28 |                  |                                                                                                                |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

|                                                                                 |                          |                                                                                                           |
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### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

|                                                                                 |                          |                                                                                                           |
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## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Regulatory References:

|     |                  |                                                                                                                                                                                                                                                                                                                                                        |
|-----|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AUS | Österreich       | Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021 , Fassung vom 17.06.2021                                                                                                                                                                                                                                                                        |
| BEL | Belgique         | Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail                                                                                                                                                                                                                                                   |
| BGR | България         | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)                                                                                                                                                                                         |
| CHE | Suisse / Schweiz | Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)                                                                                                                                                                                                                                             |
| CYP | Κύπρος           | Οι περί Αζθάλειας και Υγείας ζην Διγάζια (Φημικοί Πατάγονηερ) (Τποποποιητικοί) Κανονιζμοί ηος 2019. Οι περί Ασφάλειας και Υγείας στην Εργασία (Καρκινογόνοι και Μεταλλαζιογόνοι Παράγοντες) (Τροποποιητικοί) Κανονισμοί του 2020                                                                                                                       |
| CZE | Česká Republika  | Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů                                                                                                                                                                         |
| DEU | Deutschland      | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56                                                                                                                          |
| DNK | Danmark          | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019                                                                                                                                                                                                                                                                  |
| ESP | España           | Límites de exposición profesional para agentes químicos en España 2021                                                                                                                                                                                                                                                                                 |
| EST | Eesti            | Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]                                                                                                                                                         |
| FRA | France           | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS                                                                                                                                                                                                                                                             |
| GRC | Ελλάδα           | Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαζιόνους παράγοντες κατά την εργασία``» |
| HUN | Magyarország     | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                                                                                    |
| HRV | Hrvatska         | Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                                                                                                                                                         |
| ITA | Italia           | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                                                                                |
| IRL | Éire             | 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)                                                                                                                                                            |
| LUX | Luxembourg       | Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérogènes ou mutagènes au travail                                                                                                                         |
| LTU | Lietuva          | Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo                                                                                                                                                                          |
| LVA | Latvija          | Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)                                                                                                                                                                    |
| MLT | Malta            | PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)                                                                                                        |
| NOR | Norge            | Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255                                                                                                              |
| NLD | Nederland        | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit                                                                                                                                                                                  |
| PRT | Portugal         | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos                                                                |
| POL | Polska           | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy                                                                                                                                    |
| ROU | România          | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006                                                                                                                                                                                          |
| SWE | Sverige          | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                        |
| SVK | Slovensko        | NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov                                                             |
| SVN | Slovenija        | Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)                                                                                                                                                                |
| GBR | United Kingdom   | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                                                                              |
| EU  | OEL EU           | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;                                                                                                                                                                                                                                                   |

|                                                                                 |                   |                                                                                                                                                                                                     |        |                                              |                       |                                |  |
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| TLV-ACGIH                                                                       |                   | Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.<br>ACGIH 2022 |        |                                              |                       |                                |  |
| TETRACHLOROETHYLENE                                                             |                   |                                                                                                                                                                                                     |        |                                              |                       |                                |  |
| Threshold Limit Value                                                           |                   |                                                                                                                                                                                                     |        |                                              |                       |                                |  |
| Type                                                                            | Country           | TWA/8h                                                                                                                                                                                              |        | STEL/15min                                   |                       | Remarks / Observations         |  |
|                                                                                 |                   | mg/m3                                                                                                                                                                                               | ppm    | mg/m3                                        | ppm                   |                                |  |
| MAK                                                                             | AUS               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN Häufigkeit pro Schicht:4x |  |
| VLEP                                                                            | BEL               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| TLV                                                                             | BGR               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| MAK                                                                             | CHE               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| VME/VLE                                                                         | CHE               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| TLV                                                                             | CYP               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| TLV                                                                             | CZE               | 138                                                                                                                                                                                                 | 20,286 | 275                                          | 40,425                | SKIN                           |  |
| AGW                                                                             | DEU               | 69                                                                                                                                                                                                  | 10     | 138                                          | 20                    | SKIN                           |  |
| TLV                                                                             | DNK               | 70                                                                                                                                                                                                  | 10     |                                              |                       | SKIN                           |  |
| VLA                                                                             | ESP               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| TLV                                                                             | EST               | 70                                                                                                                                                                                                  | 10     | 170                                          | 25                    |                                |  |
| VLEP                                                                            | FRA               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    |                                |  |
| TLV                                                                             | GRC               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| AK                                                                              | HUN               | 138                                                                                                                                                                                                 |        | 275                                          |                       | SKIN                           |  |
| GVI/KGVI                                                                        | HRV               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| VLEP                                                                            | ITA               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| OELV                                                                            | IRL               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| VL                                                                              | LUX               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| RD                                                                              | LTU               | 70                                                                                                                                                                                                  | 10     | 170                                          | 25                    | SKIN                           |  |
| RV                                                                              | LVA               | 70                                                                                                                                                                                                  | 10     | 140                                          | 20                    | SKIN                           |  |
| TLV                                                                             | MLT               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| TLV                                                                             | NOR               | 40                                                                                                                                                                                                  | 6      | 120                                          | 18                    | SKIN                           |  |
| TGG                                                                             | NLD               | 138                                                                                                                                                                                                 |        | 275                                          |                       | SKIN                           |  |
| VLE                                                                             | PRT               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| NDS/NDSCh                                                                       | POL               | 85                                                                                                                                                                                                  |        | 170                                          |                       | SKIN                           |  |
| TLV                                                                             | ROU               | 50                                                                                                                                                                                                  | 7      | 100                                          | 14                    | SKIN                           |  |
| NGV/KGV                                                                         | SWE               | 70                                                                                                                                                                                                  | 10     | 170                                          | 25                    | SKIN                           |  |
| NPEL                                                                            | SVK               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| MV                                                                              | SVN               | 345                                                                                                                                                                                                 | 50     | 1380                                         | 200                   | SKIN                           |  |
| WEL                                                                             | GBR               | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| OEL                                                                             | EU                | 138                                                                                                                                                                                                 | 20     | 275                                          | 40                    | SKIN                           |  |
| TLV-ACGIH                                                                       |                   | 170                                                                                                                                                                                                 | 25     | 678                                          | 100                   |                                |  |
| Predicted no-effect concentration - PNEC                                        |                   |                                                                                                                                                                                                     |        |                                              |                       |                                |  |
| Normal value in fresh water                                                     |                   |                                                                                                                                                                                                     |        | 0,05                                         | mg/l                  |                                |  |
| Normal value in marine water                                                    |                   |                                                                                                                                                                                                     |        | 0,005                                        | mg/l                  |                                |  |

|                                                                                 |                          |                                                                                                           |
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|                                              |       |       |
|----------------------------------------------|-------|-------|
| Normal value for fresh water sediment        | 0,9   | mg/kg |
| Normal value for marine water sediment       | 0,009 | mg/kg |
| Normal value for water, intermittent release | 3     | mg/l  |
| Normal value of STP microorganisms           | 11,2  | mg/l  |
| Normal value for the terrestrial compartment | 0,01  | mg/kg |

| Health - Derived no-effect level - DNEL / DMEL |                      |                |               |                  |                    |                |               |                  |
|------------------------------------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| Route of exposure                              | Effects on consumers |                |               |                  | Effects on workers |                |               |                  |
|                                                | Acute local          | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Oral                                           |                      |                |               | 1.3 mg/kg bw/d   |                    |                |               |                  |
| Inhalation                                     |                      | 138 mg/m3      |               | 34.5 mg/m3       | 275                | 275 mg/m3      |               | 138 mg/m3        |
| Skin                                           |                      |                |               | 23 mg/kg bw/d    |                    |                |               | 39.4 mg/kg bw/d  |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

|                                                                                 |                   |                                                                                                           |
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#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| Properties                             | Value           | Information                                                                    |
|----------------------------------------|-----------------|--------------------------------------------------------------------------------|
| Appearance                             | liquid          | Method:visual                                                                  |
| Colour                                 | yellow          |                                                                                |
| Odour                                  | solvent         | Substance:TETRACHLOROETHYLENE                                                  |
| Odour threshold                        | 27 ppm          | Substance:TETRACHLOROETHYLENE                                                  |
| Melting point / freezing point         | -22 °C          | Substance:TETRACHLOROETHYLENE                                                  |
| Initial boiling point                  | 121 °C          | Substance:TETRACHLOROETHYLENE                                                  |
| Flammability                           | not flammable   | Remark:it does not contain substances classified as flammable                  |
| Lower explosive limit                  | not available   | Reason for missing data:it does not contain substances classified as explosive |
| Upper explosive limit                  | not available   | Reason for missing data:it does not contain substances classified as explosive |
| Flash point                            | > 60 °C         | Remark:it does not contain substances classified as flammable                  |
| Auto-ignition temperature              | 650 °C          | Substance:TETRACHLOROETHYLENE                                                  |
| Decomposition temperature              | not available   |                                                                                |
| pH                                     | not available   | Reason for missing data:the mixture is not polar / aprotic                     |
| Kinematic viscosity                    | not available   |                                                                                |
| Solubility                             | 150 g/l         | Substance:TETRACHLOROETHYLENE                                                  |
| Partition coefficient: n-octanol/water | 2,53            | Substance:TETRACHLOROETHYLENE                                                  |
| Vapour pressure                        | 25 hPa          | Substance:TETRACHLOROETHYLENE                                                  |
| Density and/or relative density        | 1,3 - 1,6 g/cm3 |                                                                                |
| Relative vapour density                | 5,76            | Substance:TETRACHLOROETHYLENE                                                  |
| Particle characteristics               | not applicable  |                                                                                |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Information not available

#### 9.2.2. Other safety characteristics

|                            |                            |                                                               |
|----------------------------|----------------------------|---------------------------------------------------------------|
| VOC (Directive 2010/75/EU) | 94,47 % - 1.417,05 g/litre |                                                               |
| VOC (volatile carbon)      | 13,70 % - 205,47 g/litre   |                                                               |
| Explosive properties       | not explosive              | Remark:it does not contain substances classified as explosive |
| Oxidising properties       | not oxidizing              | Remark:it does not contain substances classified as oxidizing |

|                                                                                 |                   |                                                                                                           |
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## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

TETRACHLOROETHYLENE

Decomposes at temperatures above 150°C/302°F. Decomposes if exposed to: UV rays, moisture.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

TETRACHLOROETHYLENE

Risk of explosion on contact with: alkaline metals, aluminium, alkaline hydroxides, sodium amides. May react violently with: strong bases, strong oxidising agents, alkaline earth metals, light metals, metal powders, zinc oxide.

### 10.4. Conditions to avoid

Sensitive to light, the product could decompose. Avoid exposing the product at high temperatures. Sensitive to humidity.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

TETRACHLOROETHYLENE

May develop: hydrogen chloride, phosgenes, chlorine, ethane tetrachloride, chlorine compounds.

## SECTION 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

TETRACHLOROETHYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of environmental air.

|                                                                                 |                          |                                                                                                            |
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

**TETRACHLOROETHYLENE**

Has a toxic effect on the central and peripheral nervous system, liver, kidneys and heart; the mucous membranes and the skin are irritated.

Interactive effects

Information not available

ACUTE TOXICITY

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture:       | Not classified (no significant component) |
| ATE (Dermal) of the mixture:     | Not classified (no significant component) |

**TETRACHLOROETHYLENE**

|                            |                                        |
|----------------------------|----------------------------------------|
| LD50 (Dermal):             | > 1000 ml/Kg bw coniglio               |
| LD50 (Oral):               | 3005 mg/kg dw Ratto femmina - OCSE 401 |
| LC50 (Inhalation vapours): | > 3786 mg/l/4h Ratto - OCSE 403        |

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

**TETRACHLOROETHYLENE**

Classified in group 2A (probable human carcinogen) by the International Agency for Research on Cancer (IARC).

Epidemiological studies show evidence of an association between exposure to the substance and the presence of various types of tumors: bladder cancer, non-Hodgkin's lymphomas and multiple myelomas (US EPA, 2014).

Classified as a "probable carcinogen" by the US National Toxicology Program (NTP).

Carcinogenicity

Parameter : LOEAL (C)

Route of exposure : Mouse

Effective dose : 100 ppm

Method : OECD 451

|                                                                                 |                   |                                                                                                            |
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#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### TETRACHLOROETHYLENE

Possible adverse effects on developmental toxicity

Parameter : NOAEL(C)

Route of exposure : Rat

Effective dose : 250 ppm

#### STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### **11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

### SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

#### **12.1. Toxicity**

##### TETRACHLOROETHYLENE

LC50 - for Fish

5 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

8,5 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

3,64 mg/l/72h Chlamydomonas reinhardtii

Chronic NOEC for Fish

1,99 mg/l 10 giorni Jordanella floridae

Chronic NOEC for Crustacea

510 mg/l 28 giorni Daphnia magna

#### **12.2. Persistence and degradability**

##### TETRACHLOROETHYLENE

Solubility in water

150 mg/l

Degradability: information not available

#### **12.3. Bioaccumulative potential**

##### TETRACHLOROETHYLENE

Partition coefficient: n-octanol/water

2,53

|                                                                                 |                   |                                                                                                            |
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#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not 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.

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

ADR / RID, IMDG, IATA: 1897

#### 14.2. UN proper shipping name

ADR / RID: TETRACHLOROETHYLENE

IMDG: TETRACHLOROETHYLENE

IATA: TETRACHLOROETHYLENE

#### 14.3. Transport hazard class(es)

ADR / RID: Class: 6.1 Label: 6.1

IMDG: Class: 6.1 Label: 6.1

IATA: Class: 6.1 Label: 6.1



|                                                                                 |                   |                                                                                                            |
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#### 14.4. Packing group

ADR / RID, IMDG, IATA: III

#### 14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 60

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (E)

IMDG: Special provision: -  
EMS: F-A, S-A

Limited  
Quantities: 5  
L

IATA: Cargo:

Maximum  
quantity: 220  
L

Packaging  
instructions:  
663

Passengers:

Maximum  
quantity: 60 L

Packaging  
instructions:  
655

Special provision:

-

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

### SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

##### Product

Point 3

##### Contained substance

Point 75

|                                                                                 |                          |                                                                                                            |
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Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 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 performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Carc. 2</b>           | Carcinogenicity, category 2                                        |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2                                         |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2                                        |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>H351</b>              | Suspected of causing cancer.                                       |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.                                            |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <b>H336</b>              | May cause drowsiness or dizziness.                                 |

|                                                                                 |                          |                                                                                                            |
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**H411** Toxic to aquatic life with long lasting effects.  
**EUH210** Safety data sheet available on request.

Use descriptor system:

|             |           |                                                                                          |
|-------------|-----------|------------------------------------------------------------------------------------------|
| <b>ERC</b>  | <b>8c</b> | Widespread use leading to inclusion into/onto article (indoor)                           |
| <b>ERC</b>  | <b>8f</b> | Widespread use leading to inclusion into/onto article (outdoor)                          |
| <b>LCS</b>  | <b>PW</b> | Widespread use by professional workers                                                   |
| <b>PC</b>   | <b>31</b> | Polishes and wax blends                                                                  |
| <b>PROC</b> | <b>10</b> | Roller application or brushing                                                           |
| <b>PROC</b> | <b>8a</b> | Transfer of substance or mixture (charging and discharging) at non- dedicated facilities |

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)

|                                                                                 |                   |                                                                                                            |
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- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

- 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
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**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.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Changes to previous review:**

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.