

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 1 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

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

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### **1.1 Product identifier**

**Product name:** SILICONE SIGILLANTE UNIVERSALE NERO      cd.85161163

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

**Identified uses:** Acetoxy silicone sealant

**Uses advised against:** This product is not recommended for all those uses not specifically identified on the label.

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

#### **COMPANY IDENTIFICATION**

SARATOGA INT. SFORZA SPA  
Via Edison 76  
20090 Trezzano s/Naviglio (MI)  
ITALIA

Telephone:      +39 02.445731  
Fax:              +39 02.4452742

E-mail address of person responsible for the SDS:      trading@saratogasforza.com

### **1.4 EMERGENCY TELEPHONE NUMBER**

SARATOGA INT. SFORZA SPA +39 02 445731  
from Monday to Friday (h.09:00-13:00 / 14:00-17:30)

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## **SECTION 2: HAZARDS IDENTIFICATION**

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### **2.1 Classification of the substance or mixture**

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

Long-term (chronic) aquatic hazard - Category 3 - H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **2.2 Label elements**

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

#### **Precautionary statements**

P102	Keep out of reach of children.
P262	Avoid contact with the eyes and skin.
P271	Use only outdoors or in a well-ventilated area.
P501	Dispose of the contents and the container in authorized collection centers.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 2 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

**Supplemental information**

EUH208 Contains: Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane. May produce an allergic reaction.

**2.3 Other hazards**

This product contains octamethylcyclotetrasiloxane (D4) that has been identified by the Member State Committee of ECHA as fulfilling the PBT and vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information.

This product contains dodecamethylcyclohexasiloxane (D6) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information.

This product contains decamethylcyclopentasiloxane (D5) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information.

**Endocrine disrupting properties**

Environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Human Health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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**Chemical nature:** Silicone elastomer

**3.2 Mixtures**

This product is a mixture.

CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CASRN 556-67-2 EC-No. 209-136-7 Index-No. 014-018-00-1	—	>= 0,2 - <= 0,29 %	octamethylcyclotetr asiloxane [D4]	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 1; H410  M-Factor (Chronic aquatic toxicity): 10  Acute toxicity estimate Acute oral toxicity: > 4 800 mg/kg Acute inhalation toxicity: 36 mg/l, 4 Hour, dust/mist Acute dermal toxicity: > 2 400 mg/kg

**SAFETY DATA SHEET**  
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 3 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

				0,16 mg/l, dust/mist 0,16 mg/l, dust/mist Acute dermal toxicity: > 2 000 mg/kg
<b>CASRN</b> 68928-76-7 <b>EC-No.</b> 273-028-6 <b>Index-No.</b> —	01-2120770324-57	>= 0,0009 - <= 0,02 %	Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 3; H412  Acute toxicity estimate Acute oral toxicity: 892 mg/kg Acute dermal toxicity: > 2 000 mg/kg

PBT and vPvB substance

<b>CASRN</b> 540-97-6 <b>EC-No.</b> 208-762-8 <b>Index-No.</b> —	—	>= 0,35 - <= 0,44 %	Dodecamethyl cyclohexasiloxane	Not classified  Acute toxicity estimate Acute oral toxicity: > 2 000 mg/kg Acute dermal toxicity: > 2 000 mg/kg
<b>CASRN</b> 541-02-6 <b>EC-No.</b> 208-764-9 <b>Index-No.</b> —	—	>= 0,2 - <= 0,31 %	Decamethylcyclotrisiloxane	Not classified  Acute toxicity estimate Acute oral toxicity: > 24 134 mg/kg Acute inhalation toxicity: 8,67 mg/l, 4 Hour, dust/mist Acute dermal toxicity: > 2 000 mg/kg

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air and keep comfortable for breathing; consult a physician.

**Skin contact:** Wash off with plenty of water.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 4 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** Rinse mouth with water. No emergency medical treatment necessary.

**4.2 Most important symptoms and effects, both acute and delayed:**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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## **SECTION 5: FIREFIGHTING MEASURES**

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### **5.1 Extinguishing media**

**Suitable extinguishing media:** Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray.

**Unsuitable extinguishing media:** None known..

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

**Hazardous combustion products:** Carbon oxides. Silicon oxides.

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health..

### **5.3 Advice for firefighters**

**Fire Fighting Procedures:** Use water spray to cool unopened containers.. Evacuate area.. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 5 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

**6.2 Environmental precautions:** Do not release the product to the aquatic environment above defined regulatory levels. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and materials for containment and cleaning up:** Wipe up or scrape up and contain for salvage or disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.

**6.4 Reference to other sections:**  
See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: HANDLING AND STORAGE

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**7.1 Precautions for safe handling:** Do not get on skin or clothing. Avoid contact with eyes. Do not swallow. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.

Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents.  
Unsuitable materials for containers: None known.

**7.3 Specific end use(s):** See the technical data sheet on this product for further information.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
octamethylcyclotetrasiloxane [D4]	US WEEL	TWA	10 ppm
Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane	ACGIH	TWA	0,1 mg/m3 , Tin
	Further information: A4: Not classifiable as a human carcinogen; Skin: Danger of cutaneous absorption		
	ACGIH	STEL	0,2 mg/m3 , Tin
	Further information: A4: Not classifiable as a human carcinogen; Skin: Danger of cutaneous absorption		

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 6 of 26

Date of print: 21/05/2024  
Date of previous review: 21/05/2024

Decamethylcyclopentasiloxane	US WEEL	TWA	10 ppm
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### Recommended monitoring procedures

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with the Occupational Exposure Limits and the adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples should be analysed by an accredited laboratory.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy); European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents); European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods.

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods.

Health and Safety Executive (HSE), United Kingdom: Methods for the Determination of Hazardous Substances.

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany.

L'Institut National de Recherche et de Sécurité, (INRS), France.

### Derived No Effect Level

octamethylcyclotetrasiloxane [D4]

#### Workers

Acute systemic effects		Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	73 mg/m3	n.a.	73 mg/m3

#### Consumers

Acute systemic effects			Acute local effects		Long-term systemic effects			Long-term local effects	
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13 mg/m3	3,7 mg/kg bw/day	n.a.	13 mg/m3

Dodecamethyl cyclohexasiloxane

#### Workers

Acute systemic effects		Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	6,1 mg/m3	n.a.	11 mg/m3	n.a.	1,22 mg/m3

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 7 of 26

Date of print: 21/05/2024  
Date of previous review: 21/05/2024

**Consumers**

<i>Acute systemic effects</i>			<i>Acute local effects</i>		<i>Long-term systemic effects</i>			<i>Long-term local effects</i>	
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	1,7 mg/kg bw/day	n.a.	1,5 mg/m3	n.a.	2,7 mg/m3	1,7 mg/kg bw/day	n.a.	0,3 mg/m3

Decamethylcyclopentasiloxane

**Workers**

<i>Acute systemic effects</i>		<i>Acute local effects</i>		<i>Long-term systemic effects</i>		<i>Long-term local effects</i>	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	97,3 mg/m3	n.a.	24,2 mg/m3	n.a.	97,3 mg/m3	n.a.	24,2 mg/m3

**Consumers**

<i>Acute systemic effects</i>			<i>Acute local effects</i>		<i>Long-term systemic effects</i>			<i>Long-term local effects</i>	
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	17,3 mg/m3	5 mg/kg bw/day	n.a.	4,3 mg/m3	n.a.	17,3 mg/m3	5 mg/kg bw/day	n.a.	4,3 mg/m3

**Predicted No Effect Concentration**

octamethylcyclotetrasiloxane [D4]

Compartment	PNEC
Fresh water	0,0015 mg/l
Marine water	0,00015 mg/l
Fresh water sediment	3 mg/kg
Marine sediment	0,3 mg/kg
Soil	0,54 mg/kg
Sewage treatment plant	10 mg/l
Oral	41 mg/kg food

Dodecamethyl cyclohexasiloxane

Compartment	PNEC
Fresh water sediment	2,826 mg/kg
Marine sediment	0,282 mg/kg
Soil	3,336 mg/kg
Sewage treatment plant	> 1,0 mg/l

Decamethylcyclopentasiloxane

Compartment	PNEC
Fresh water	> 0,0012 mg/l
Marine water	> 0,00012 mg/l
Fresh water sediment	2,4 mg/kg
Marine sediment	0,24 mg/kg
Soil	1,1 mg/kg
Sewage treatment plant	> 10 mg/l

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 8 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

## 8.2 Exposure controls

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

### Individual protection measures

**Eye/face protection:** Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

#### Skin protection

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other glove materials with a thickness of less than 0.35 mm may offer sufficient protection when only brief contact is expected. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

Use the following CE approved air-purifying respirator: Organic vapor cartridge, type A (boiling point >65 °C, meeting standard EN 14387).

### Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.



**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 9 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	tixotropic paste	
Color	black	
Odor	acetic acid	
pH	Not applicable	substance/mixture not soluble (in water)
Melting point/freezing point		
Melting point/range	No data available	
Freezing point	not determined	
Boiling point or initial boiling point and boiling range		
Boiling point (760 mmHg)	Not applicable	
Flash point	<b>closed cup</b> >+100 °C	
Flammability (solid, gas)	Not classified as a flammability hazard	
Flammability (liquids)	Not applicable, paste	
Lower explosion limit	Not applicable, paste	
Upper explosion limit	Not applicable, paste	
Vapor Pressure	Not applicable	
Relative Vapor Density (air = 1)	Not applicable, paste	
Relative Density (water = 1)	1,02	
Solubility(ies)		
Water solubility	Insoluble	
Partition coefficient: n-octanol/water	Not applicable	the product is a mixture
Auto-ignition temperature	Not applicable, paste	
Decomposition temperature	Not applicable	the mixture is not self-reactive
Kinematic Viscosity	Not applicable, paste	
Particle characteristics		
Particle size	Not applicable	the product is not a solid

### 9.2 Other information

Molecular weight	No data available
Dynamic Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Self-heating substances	The substance or mixture is not classified as self heating.

Evaporation Rate (Butyl Acetate = 1)  
= 1) Not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 10 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

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## **SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity:** Not classified as a reactivity hazard.

**10.2 Chemical stability:** Stable under normal conditions.

**10.3 Possibility of hazardous reactions:** Can react with strong oxidizing agents.

**10.4 Conditions to avoid:** None known.

**10.5 Incompatible materials:** Avoid contact with oxidizing materials.

**10.6 Hazardous decomposition products:**

Decomposition products can include and are not limited to: Formaldehyde.

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

#### **Information on likely routes of exposure**

Eye contact, Skin contact, Ingestion.

**Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)**

#### **Acute oral toxicity**

##### **Information for the Product:**

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: Single dose oral LD50 has not been determined.

Based on information for component(s):

LD50, Rat, > 5 000 mg/kg Estimated.

##### **Information for components:**

###### **octamethylcyclotetrasiloxane [D4]**

LD50, Rat, male, > 4 800 mg/kg No deaths occurred at this concentration.

###### **Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

LD50, Rat, male and female, 892 mg/kg OECD 401 or equivalent

###### **Dodecamethyl cyclohexasiloxane**

LD50, Rat, male and female, > 2 000 mg/kg No deaths occurred at this concentration.

###### **Decamethylcyclopentasiloxane**

LD50, Rat, male and female, > 24 134 mg/kg

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 11 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

### Acute dermal toxicity

#### Information for the Product:

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

Based on information for component(s):  
LD50, Rabbit, > 2 000 mg/kg Estimated.

#### Information for components:

**octamethylcyclotetrasiloxane [D4]**

LD50, Rat, male and female, > 2 400 mg/kg No deaths occurred at this concentration.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

LD50, Rat, > 2 000 mg/kg

**Dodecamethyl cyclohexasiloxane**

LD50, Rabbit, male and female, > 2 000 mg/kg

**Decamethylcyclopentasiloxane**

LD50, Rabbit, male and female, > 2 000 mg/kg No deaths occurred at this concentration.

### Acute inhalation toxicity

#### Information for the Product:

At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material may cause respiratory irritation.

As product: The LC50 has not been determined.

#### Information for components:

**octamethylcyclotetrasiloxane [D4]**

LC50, Rat, male and female, 4 Hour, dust/mist, 36 mg/l OECD Test Guideline 403

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

As product: The LC50 has not been determined.

**Dodecamethyl cyclohexasiloxane**

The LC50 has not been determined.

**Decamethylcyclopentasiloxane**

LC50, Rat, male and female, 4 Hour, dust/mist, 8,67 mg/l

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 12 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

### **Skin corrosion/irritation**

#### **Information for the Product:**

Based on information for component(s):  
Prolonged exposure not likely to cause significant skin irritation.

#### **Information for components:**

##### **octamethylcyclotetrasiloxane [D4]**

Brief contact is essentially nonirritating to skin.

##### **Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

Brief contact may cause skin irritation with local redness.

##### **Dodecamethyl cyclohexasiloxane**

Essentially nonirritating to skin.

##### **Decamethylcyclopentasiloxane**

Prolonged contact is essentially nonirritating to skin.

### **Serious eye damage/eye irritation**

#### **Information for the Product:**

Based on information for component(s):  
May cause slight temporary eye irritation.  
May cause mild eye discomfort.

#### **Information for components:**

##### **octamethylcyclotetrasiloxane [D4]**

Essentially nonirritating to eyes.

##### **Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

May cause slight eye irritation.  
May cause slight temporary corneal injury.

##### **Dodecamethyl cyclohexasiloxane**

May cause slight temporary eye irritation.  
Corneal injury is unlikely.

##### **Decamethylcyclopentasiloxane**

Essentially nonirritating to eyes.

### **Sensitization**

#### **Information for the Product:**

For skin sensitization:  
Based on testing for a similar material:  
Did not cause allergic skin reactions when tested in guinea pigs.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 13 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

For respiratory sensitization:  
No relevant data found.

**Information for components:**

**octamethylcyclotetrasiloxane [D4]**

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:  
No relevant data found.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:  
No relevant data found.

**Dodecamethyl cyclohexasiloxane**

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:  
No relevant data found.

**Decamethylcyclopentasiloxane**

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:  
No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

**Information for the Product:**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Information for components:**

**octamethylcyclotetrasiloxane [D4]**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

Available data are inadequate to determine single exposure specific target organ toxicity.

**Dodecamethyl cyclohexasiloxane**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Decamethylcyclopentasiloxane**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Aspiration Hazard**

**Information for the Product:**

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 14 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

Based on physical properties, not likely to be an aspiration hazard.

**Information for components:**

**octamethylcyclotetrasiloxane [D4]**

May be harmful if swallowed and enters airways.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

Based on physical properties, not likely to be an aspiration hazard.

**Dodecamethyl cyclohexasiloxane**

Based on physical properties, not likely to be an aspiration hazard.

**Decamethylcyclopentasiloxane**

Based on physical properties, not likely to be an aspiration hazard.

**Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)**

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

**Information for the Product:**

Based on available data for the component(s), repeated exposures are not anticipated to cause significant adverse effects.

**Information for components:**

**octamethylcyclotetrasiloxane [D4]**

In animals, effects have been reported on the following organs:

Kidney.

Liver.

Respiratory tract.

Female reproductive organs.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

In animals, effects have been reported on the following organs:

Blood

Kidney

Liver

Immune system.

**Dodecamethyl cyclohexasiloxane**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Decamethylcyclopentasiloxane**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 15 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

## **Carcinogenicity**

### **Information for the Product:**

No relevant data found.

### **Information for components:**

#### **octamethylcyclotetrasiloxane [D4]**

Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

#### **Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

No relevant data found.

#### **Dodecamethyl cyclohexasiloxane**

No relevant data found.

#### **Decamethylcyclopentasiloxane**

Results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans.

## **Teratogenicity**

### **Information for the Product:**

Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

### **Information for components:**

#### **octamethylcyclotetrasiloxane [D4]**

Did not cause birth defects or any other fetal effects in laboratory animals.

#### **Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

No relevant data found.

#### **Dodecamethyl cyclohexasiloxane**

No relevant data found.

#### **Decamethylcyclopentasiloxane**

Did not cause birth defects or any other fetal effects in laboratory animals.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 16 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

## Reproductive toxicity

### Information for the Product:

In animal studies on component(s), effects on reproduction were seen only at doses that produced significant toxicity to the parent animals. Contains component(s) which have interfered with fertility in animal studies.

### Information for components:

#### octamethylcyclotetrasiloxane [D4]

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. In animal studies, has been shown to interfere with fertility.

#### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

No relevant data found.

#### Dodecamethyl cyclohexasiloxane

In animal studies, did not interfere with reproduction.

#### Decamethylcyclopentasiloxane

In animal studies, did not interfere with reproduction.

## Mutagenicity

### Information for the Product:

In vitro genetic toxicity studies were negative for component(s) tested. Genetic toxicity studies in animals were negative for component(s) tested.

### Information for components:

#### octamethylcyclotetrasiloxane [D4]

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

#### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

#### Dodecamethyl cyclohexasiloxane

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

#### Decamethylcyclopentasiloxane

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## 11.2 Information on other hazards

### Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting



**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 17 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Information for components:**

**octamethylcyclotetrasiloxane [D4]**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Dodecamethyl cyclohexasiloxane**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Decamethylcyclopentasiloxane**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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## **SECTION 12: ECOLOGICAL INFORMATION**

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### **12.1 Toxicity**

**octamethylcyclotetrasiloxane [D4]**

**Acute toxicity to fish**

Based on testing of comparable products: The estimated maximum aqueous concentration of Octamethyl Cyclotetrasiloxane (D4) from migration to water from the product as supplied is below the D4 established no-effect threshold (< 0.0079 mg/L) for aquatic organisms.

**Chronic toxicity to aquatic invertebrates**

Based on testing for product(s) in this family of materials:  
Not classified due to data which are conclusive although insufficient for classification.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

**Acute toxicity to fish**

Material is harmful to aquatic organisms (LC50/EC50/IC50 between 10 and 100 mg/L in the most sensitive species).

For similar material(s):

LC50, Zebra fish (Danio/Brachydanio rerio), semi-static test, 96 Hour, > 100 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

EC50, Daphnia magna, static test, 48 Hour, 39 mg/l, OECD Test Guideline 202 or Equivalent

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 18 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

**Acute toxicity to algae/aquatic plants**

ErC50, Algae (*Scenedesmus subspicatus*), Growth rate, 72 Hour, Growth rate, 7,6 mg/l,  
OECD Test Guideline 201 or Equivalent  
For similar material(s):  
NOEC, Algae (*Scenedesmus subspicatus*), Growth rate, 72 Hour, Growth rate, 1,1 mg/l,  
OECD Test Guideline 201 or Equivalent

**Toxicity to bacteria**

For similar material(s):  
EC50, Bacteria, 3 Hour, Respiration rates., 14 mg/l

**Dodecamethyl cyclohexasiloxane**

**Acute toxicity to algae/aquatic plants**

Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility  
ErC50, *Pseudokirchneriella subcapitata* (green algae), 72 Hour, > 0,002 mg/l

**Decamethylcyclopentasiloxane**

**Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.  
No toxicity at the limit of solubility  
LC50, *Oncorhynchus mykiss* (rainbow trout), 96 Hour, > 16 µg/l, OECD Test Guideline 204 or  
Equivalent

**Acute toxicity to aquatic invertebrates**

No toxicity at the limit of solubility  
EC50, *Daphnia magna*, 48 Hour, > 2,9 mg/l, OECD Test Guideline 202 or Equivalent

**Acute toxicity to algae/aquatic plants**

No toxicity at the limit of solubility  
ErC50, *Pseudokirchneriella subcapitata* (green algae), 96 Hour, Growth rate, > 0,012 mg/l  
No toxicity at the limit of solubility  
NOEC, *Pseudokirchneriella subcapitata* (green algae), 96 Hour, Growth rate, 0,012 mg/l

**Chronic toxicity to fish**

No toxicity at the limit of solubility  
LC50, *Oncorhynchus mykiss* (rainbow trout), 14 d, > 16 mg/l  
No toxicity at the limit of solubility  
NOEC, *Oncorhynchus mykiss* (rainbow trout), 45 d, >= 0,017 mg/l  
No toxicity at the limit of solubility  
NOEC, *Oncorhynchus mykiss* (rainbow trout), 90 d, >= 0,014 mg/l

**Chronic toxicity to aquatic invertebrates**

NOEC, *Daphnia magna*, 21 d, 0,015 mg/l

**Toxicity to soil-dwelling organisms**

This product does not have any known adverse effect on the soil organisms tested.  
NOEC, *Eisenia fetida* (earthworms), >= 76 mg/kg

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 19 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

## 12.2 Persistence and degradability

### octamethylcyclotetrasiloxane [D4]

**Biodegradability:** Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 3,7 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 310

#### **Stability in Water (1/2-life)**

Hydrolysis, DT50, 3,9 d, pH 7, Half-life Temperature 25 °C, OECD Test Guideline 111

### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

**Biodegradability:** For similar material(s): Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

For similar material(s): 10-day Window: Fail

**Biodegradation:** 3 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301F or Equivalent

### Dodecamethyl cyclohexasiloxane

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail

**Biodegradation:** 4,5 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301B

### Decamethylcyclopentasiloxane

**Biodegradability:** Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 0,14 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 310

## 12.3 Bioaccumulative potential

### octamethylcyclotetrasiloxane [D4]

**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Partition coefficient: n-octanol/water(log Pow):** 6,49 Measured

**Bioconcentration factor (BCF):** 12 400 Pimephales promelas (fathead minnow) Measured

### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

**Bioaccumulation:** No relevant data found.

### Dodecamethyl cyclohexasiloxane

**Bioaccumulation:** Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 20 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

**Partition coefficient: n-octanol/water(log Pow): 8,87**

**Decamethylcyclopentasiloxane**

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Partition coefficient: n-octanol/water(log Pow): 5,2 Measured**

**Bioconcentration factor (BCF): 2 010 Fish Estimated.**

**12.4 Mobility in soil**

**octamethylcyclotetrasiloxane [D4]**

**Partition coefficient (Koc): 16596 OECD Test Guideline 106**

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

No relevant data found.

**Decamethylcyclopentasiloxane**

**Partition coefficient (Koc): > 5000 Estimated.**

**12.5 Results of PBT and vPvB assessment**

**octamethylcyclotetrasiloxane [D4]**

Octamethylcyclotetrasiloxane (D4) meets the current criteria for PBT and vPvB under REACH Annex XIII or other regionally specific criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms. Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

This substance is considered to be persistent, bioaccumulating and toxic (PBT).

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**Dodecamethyl cyclohexasiloxane**

Dodecamethyl cyclohexasiloxane (D6) meets the current REACH Annex XIII criteria for vPvB. However, D6 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D6 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 21 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

**Decamethylcyclopentasiloxane**

Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms. Based on an independent scientific panel of experts, the Canadian Minister of the Environment has concluded that "D5 is not entering the environment in a quantity or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, or that constitute or may constitute a danger to the environment on which life depends".

**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**octamethylcyclotetrasiloxane [D4]**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Dodecamethyl cyclohexasiloxane**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Decamethylcyclopentasiloxane**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**12.7 Other adverse effects**

**octamethylcyclotetrasiloxane [D4]**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Dodecamethyl cyclohexasiloxane**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Decamethylcyclopentasiloxane**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 22 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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### **13.1 Waste treatment methods**

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

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## **SECTION 14: TRANSPORT INFORMATION**

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### **Classification for ROAD and Rail transport (ADR/RID):**

- |  |   |
|--|---|
| <b>14.1 UN number or ID number</b>       | Not applicable  |
| <b>14.2 UN proper shipping name</b>      | Not regulated for transport                                       |
| <b>14.3 Transport hazard class(es)</b>   | Not applicable  |
| <b>14.4 Packing group</b>                | Not applicable  |
| <b>14.5 Environmental hazards</b>        | Not considered environmentally hazardous based on available data. |
| <b>14.6 Special precautions for user</b> | No data available.  |

### **Classification for SEA transport (IMO-IMDG):**

- |   |   |
|---|---|
| <b>14.1 UN number or ID number</b>                                  | Not applicable  |
| <b>14.2 UN proper shipping name</b>                                 | Not regulated for transport                                 |
| <b>14.3 Transport hazard class(es)</b>                              | Not applicable  |
| <b>14.4 Packing group</b>   | Not applicable  |
| <b>14.5 Environmental hazards</b>                                   | Not considered as marine pollutant based on available data. |
| <b>14.6 Special precautions for user</b>                            | No data available.  |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Consult IMO regulations before transporting ocean bulk      |

### **Classification for AIR transport (IATA/ICAO):**

- |  |                             |
|--|-----------------------------|
| <b>14.1 UN number or ID number</b>     | Not applicable              |
| <b>14.2 UN proper shipping name</b>    | Not regulated for transport |
| <b>14.3 Transport hazard class(es)</b> | Not applicable              |
| <b>14.4 Packing group</b>              | Not applicable              |
| <b>14.5 Environmental hazards</b>      | Not applicable              |

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 23 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

**14.6 Special precautions for user** No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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## SECTION 15: REGULATORY INFORMATION

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

#### REACH Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

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

Conditions of restriction for the following entries should be considered:  
octamethylcyclotetrasiloxane [D4] (Number on list 70)  
Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane (Number on list 20)  
Decamethylcyclopentasiloxane (Number on list 70)

#### Authorisation status under REACH:

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

CAS-No.: 556-67-2	Name: octamethylcyclotetrasiloxane [D4]
-------------------	---

Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation

Authorisation number: Not available

Sunset date: Not available

Exempted (Categories of) Uses: Not available

CAS-No.: 540-97-6	Name: Dodecamethyl cyclohexasiloxane
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Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation

Authorisation number: Not available

Sunset date: Not available

Exempted (Categories of) Uses: Not available

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 24 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

CAS-No.: 541-02-6	Name: Decamethylcyclopentasiloxane
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Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation  
Authorisation number: Not available  
Sunset date: Not available  
Exempted (Categories of) Uses: Not available

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

Listed in Regulation: Not applicable

**Further information**

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture.

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## SECTION 16: OTHER INFORMATION

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008**

Aquatic Chronic - 3 - H412 - Calculation method

**Revision**

Sections from 1 to 16.

**Legend**

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
IHG	Industrial Hygiene Guideline
STEL	Short term exposure limit
TWA	Time weighted average
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)
Acute Tox.	Acute toxicity
Aquatic Acute	Short-term (acute) aquatic hazard



**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

SILICONE SIGILLANTE UNIVERSALE NERO  
cod.85161163  
Version: 5.2 / EN

Page 25 of 26

Date of print: 21/05/2024  
Data of previous review: 21/05/2024

Aquatic Chronic	Long-term (chronic) aquatic hazard
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquids
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Information Source and References**

This SDS is prepared by internal references within our company.

**SAFETY DATA SHEET**  
**According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**

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Version: 5.2 / EN

Page 26 of 26

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