

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 1 of 14
Print Date: 19-12-2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identification:

Product name: Tube hardener for kneadable silicone Resilstuc
UFI Code: PS00-GOR1-P004-MTRR

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

Relevant applications: Hardener for silicone rubber.
For professional use / industrial use only.
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet

Responsible distributor: ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency telephone number:

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Directive (EC) No 1272/2008 and its amendments.

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Flam. Liq. 3: Flammable liquids, Category 3, H226

Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:



Hazard pictograms:

Signal word: **Warning**

Hazardous ingredients which must be stated on the label

- ✓ Dimethylbis[(1-oxoneodecyl)oxy]stannane

Indications of danger:

H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction.

Precautions:

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

P261: Avoid breathing vapours

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

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

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 2 of 14
Print Date: 19-12-2024

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Chemical description: Chemical substance.

Components:

In accordance with Annex II to Regulation (EC) No 1907/2006 (item 3) the product contains:

Chemical name	CAS number EC number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
Dimethylbis[(1-oxoneodecyl)oxy]stannane ⁽¹⁾	68928-76-7 273-028-6 -	Acute Tox. 3: H301; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1A: H317	10 - <25 %
Tetraethyl silicate ⁽¹⁾	78-10-4 201-083-8 014-005-00-0 01-2119496195-28	Acute Tox. 4: H332; Eye Irrit. 2: H319; Flam. Liq. 3: H226; STOT SE 3: H335	10 - <25 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878.

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute Toxicity		Genus
Dimethylbis[(1-oxoneodecyl)oxy]stannane ⁽¹⁾ CAS: 68928-76-7 EC: 273-028-6	LD50 Oral	190 mg/kg (ATEi)	Rat
	LD50 Dermal	Not relevant	
	LC50 Inhalation	Not relevant	
Tetraethyl silicate CAS: 78-10-4 EC: 201-083-8	LD50 Oral	Not relevant	
	LD50 Dermal	Not relevant	
	LC50 Inhalation	11 mg/L (ATEi)	

SECTION 4: First aid measures

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation.

However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest.

Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction.

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap.

In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes.

Do not allow the person affected to rub or close their eyes.

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 3 of 14
Print Date: 19-12-2024

If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration.

Keep the person affected at rest.

Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC).

Unsuitable extinguishing media:

Water jet.

5.2 Special hazards arising from the substance or mixture

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA).

Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies.

Eliminate all sources of ignition.

In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures.

Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: Accidental release measures for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task.

Evacuate the area and keep out those without protection.

Personal protection equipment must be used against potential contact with the spilt product (See section 8).

Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium.

Remove any source of ignition.

Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment.

Keep unprotected persons away.

See section 8.

6.2 Environmental precautions:

It is recommended to avoid environmental spillage of both the product and its container.

6.3 Methods and material for containment and cleaning up

According to directive 1907/2006/EC, Article 32
 Version 2.0 Revision Date: 05-02-2024
 Trade name: Kneadable silicone Resilstuc - tube hardener

Page 4 of 14
 Print Date: 19-12-2024

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place.
 Do not absorb in sawdust or other combustible absorbents.
 For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling

Precautions for safe handling

Comply with the current legislation concerning the prevention of industrial risks.
 Keep containers hermetically sealed.
 Control spills and residues, destroying them with safe methods (section 6).
 Avoid leakages from the container.
 Maintain order and cleanliness where dangerous products are used.

Technical recommendations to prevent fires and explosions

Transfer in well-ventilated areas, preferably through localized extraction.
 Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations.
 Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible.
 Transfer at a slow speed to avoid the creation of electrostatic charges.
 Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear.

Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137).

Consult section 10 for conditions and materials that should be avoided.

Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3).

7.2 Conditions for safe storage, including any incompatibilities

Technical measures for storage

Minimum temperature: 5°C
 Maximum temperature 30°C
 Maximum time: 6 months

General storage conditions

Avoid sources of heat, radiation, static electricity and contact with food.
 For additional information see subsection 10.5.

7.3 Specific end use:

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
Tetraethyl silicate CAS : 78-10-4 EC: 201-083-8	IOELV (8h)	5 ppm	44 mg/m ³
	IOELV (STEL)		

SAFETY DATA SHEET

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 5 of 14
Print Date: 19-12-2024

DNEL (workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Tetraethyl silicate CAS: 78-10-4 EC: 201-083-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	56 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Tetraethyl silicate CAS: 78-10-4 EC: 201-083-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	3 mg/kg	Not relevant
	Inhalation	14 mg/m ³	14 mg/m ³	14 mg/m ³	14 mg/m ³

PNEC:

Identification				
	STP	Soil	Intermittent	Oral
Tetraethyl silicate CAS: 78-10-4 EC: 201-083-8	4000 mg/L	0,05 mg/kg	10 mg/L	Not relevant
	Fresh water	Marine water	Sediment (Fresh water)	Sediment (Marine water)
	0,19 mg/L	0,019 mg/L	0,83 mg/kg	0,083 mg/kg

8.2 Exposure controls:

Personal protective equipment:

Individual protection measures, such as personal protective equipment:

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425.

For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer.

For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory protection:

Pictogram:



Mandatory airway protection

PPE:

Filter mask for gases and vapours



Labelling:

CEN-standard:

EN 405:2001+A1:2010

Remarks:

Replace when there is an odour or smell of contamination in the face mask.
If the contamination comes with warnings, it is recommended to use isolation equipment.

Specific protection for the hands:

Pictogram:



Mandatory hand protection

PPE:

Protective gloves against minor risks



Labelling:

CEN standard:

-

Remarks:

Change gloves at signs of damage.
For prolonged exposure to the product for professional users / industrialists, we recommend the use of CE III gloves in accordance with the standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018.

"As the product is a mixture of several substances, the durability of the glove material cannot be predicted with complete reliability and must therefore be checked before use".

Eye and face protection:

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 6 of 14
Print Date: 19-12-2024

Pictogram:  Mandatory face protection
PPE: Panoramic goggles against splashes / projections.
Labelling: 
CEN standard: EN 166:2002
EN ISO 4007:2018
Remarks: Clean daily and disinfect periodically according to the manufacturer's instructions.
Use when there is a risk of splashing.

Body protection:

Pictogram:  Mandatory complete body protection
PPE: Antistatic and fireproof protective clothing

Labelling: 
CEN standard: EN 1149-1:2006
EN 1149-2:1997
EN 1149-3:2004
EN 168:2002
EN ISO 14116:2015
EN 1149-5:2018

Remarks: Limited protection against flames.

Pictogram:  Mandatory foot protection
PPE: Safety footwear with antistatic and heat resistant properties.

Labelling: 
CEN Standard: EN ISO 13287:2020
EN ISO 20345:2011

Remarks: Replace boots at any sign of deterioration.

Additional emergency measures

Emergency measure:  Emergency shower
Standard: ANSI Z358-1
ISO 3864-1:2011, ISO 3864-4:2011

Emergency measure:  Eyewash stations
Standard: DIN 12 899
ISO 3864-1:2011, ISO 3864-4:2011

Controlling environmental exposure:

In accordance with Community legislation on the protection of the environment, it is recommended that spillage of both the product and its packaging into the environment be prevented.
For additional information see section 7.1.

Volatile organic compounds:

With regard to Directive 2010/75 / EU, this product has the following characteristics:

V.O.C. (Supply): 10% by weight
V.O.C. density at 20°C: 100,59 kg/m³ (100,59 g/L)
Average carbon number: 8

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 7 of 14
Print Date: 19-12-2024

Average molecular weight 208.3 g/mol

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General data

Occurrence:

Physical state at 20°C:	Liquid
Appearance:	Not available
Colour:	Amber
Odour:	odourless
Odour threshold:	Not relevant *

Change of state

Boiling point at atmospheric pressure	165°C
Vapour pressure at 20°C	246 Pa
Vapour pressure at 50 °C	1448.04 Pa (1.45 kPa)
Evaporation rate at 20°C:	Not relevant *

Product description:

Density at 20°C:	1005.9 kg/m ³
Relative density at 20°C:	1.006
Dynamic viscosity at 20°C	2.03 cP
Kinematic viscosity at 20°C:	2.02 cSt
Kinematic viscosity at 40°C:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20°C:	Not relevant *
Partition coefficient n-octanol / water 20°C:	Not relevant *
Solubility in water at 20°C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point /freezing point:	Not relevant *
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *

Flammability:

Flash point	45°C
Flammability (solid, gas):	Not relevant *
Auto-ignition temperature	235°C
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Particle characteristics:

Median equivalent diameter:	Non-applicable
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9.2 Other information

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

Other safety characteristics:

Surface tension at 20°C:	Not relevant *
Refraction index:	Not relevant *

* Not relevant due to the nature of the product, it does not provide information on its hazards.

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 8 of 14
Print Date: 19-12-2024

SECTION 10: Stability and reactivity

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions.
See section 7 from Safety Data Sheet.

10.2 Chemical Stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Potentially hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid

Applicable for handling and storage at room temperature:

Shock and friction :	Not applicable
Contact with air :	Not applicable
Temperature increase :	Risk of combustion
Sunlight :	Avoid direct impact
Humidity :	Not applicable

10.5 Chemically Interacting Materials:

Acids :	Avoid strong acids
Water :	Not applicable
Oxidising materials :	Avoid direct impact
Combustible materials :	Not applicable
Other:	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products.
Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available.

Dangerous effects on health:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

Ingestion (acute effect):

Acute toxicity:

Based on available data, the classification criteria are not met.
However, it contains substances classified as dangerous for consumption.
For more information see section 3.

Corrosivity / irritability:

Based on available data, the classification criteria are not met.
However, it does contain substances classified as hazardous for this effect.
For more information see section 3.

Inhalation (acute effect):

Acute toxicity:

Based on available data, the classification criteria are not met.
However, it contains substances classified as hazardous for inhalation.
For more information see section 3.

Corrosivity / irritability:

Based on available data, the classification criteria are not met.
However, it contains substances classified as hazardous for inhalation.
For more information see section 3.

According to directive 1907/2006/EC, Article 32
 Version 2.0 Revision Date: 05-02-2024
 Trade name: Kneadable silicone Resilstuc - tube hardener

Page 9 of 14
 Print Date: 19-12-2024

Contact with skin and eyes (acute effect):

Skin contact:

Based on available data, the classification criteria are not met.
 However, it contains substances classified as hazardous for skin contact.
 For more information see section 3.

Contact with eyes:

Based on available data, the classification criteria are not met.
 However, it does contain substances classified as hazardous for this effect.
 For more information see section 3.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Carcinogenicity:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned.
 For more information see section 3.

IARC: not applicable

Mutagenicity:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.
 For more information see section 3.

Reproductive toxicity:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.
 For more information see section 3.

Sensitising effects:

Respiratory:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects.
 For more information see section 3.

Skin:

Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation.
 For more information see section 3.

Specific target organ toxicity (STOT) - repeated exposure:

Specific target organ toxicity (STOT) - repeated exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.
 For more information see section 3.

Skin:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.
 For more information see section 3.

Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.
 For more information see section 3.

Other information:

Not relevant.

Specific toxicological information on the substances:

Identification	Acute Toxicity		Genus
Dimethylbis[(1-oxoneodecyl)oxy]stannane ⁽¹⁾	LD50 Oral	190 mg/kg (ATEi)	Rat

SAFETY DATA SHEET

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 10 of 14
Print Date: 19-12-2024

CAS: 68928-76-7 EC: 273-028-6	LD50 Dermal	>2000 mg/kg	
	LC50 Inhalation	>20 mg/L	
Tetraethyl silicate CAS: 78-10-4 EC: 201-083-8	LD50 Oral	6270 mg/kg	Rat
	LD50 Dermal	5878 mg/kg	Rat
	LC50 Inhalation	11 mg/L (ATEi)	

11.2 Information on other hazards:

Endocrine disrupting properties:

The product does not meet the criteria.

Other information:

Not relevant.

SECTION 12: Ecological information

The experimental information related to the eco-toxicological properties of the product itself is not available.

Based on available data, the classification criteria are not met.

However, it does contain substances classified as hazardous for this effect.

For more information see section 3.

12.1 Toxicity:

Identification	Acute Toxicity		Species	Genus
Dimethylbis[(1-oxoneodecyl)oxy]stannane CAS: 68928-76-7 EC: 273-028-6	LC50	Not relevant		
	EC50	39 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	7,2 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and Degradability:

Identification	Degradability		Biodegradability	
Dimethylbis[(1-oxoneodecyl)oxy]stannane CAS: 68928-76-7 EC: 273-028-6	BOD5	Not relevant	Concentration	19 mg/L
	COD	Not relevant	28 days	cell period Test content
	BOD5/COD	Not relevant	% Biodegradable	0 %

12.3 Bioaccumulation:

Identification	Bioaccumulation potential	
Dimethylbis[(1-oxoneodecyl)oxy]stannane CAS: 68928-76-7 EC: 273-028-6	BCF	3
	Pow Log	0.04
	Potential	Low

12.4 Mobility in Soil:

Identification	Absorption/desorption		Volatility	
Dimethylbis[(1-oxoneodecyl)oxy]stannane CAS: 68928-76-7 EC: 273-028-6	Koc	1	Henry	2.03 Pa m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	Not relevant	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria.

12.6 Endocrine disrupting properties:

The product does not meet the criteria.

12.7 Other adverse effects:

Not described.

SECTION 13: Instructions for disposal

13.1 Waste treatment methods:

Waste type (Regulation (EU) No.1357 / 2014):

HP3 Flammable, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage.

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC).

As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product.

Otherwise, it will be processed as non-hazardous residue.

Waste should not be disposed of to drains.

See paragraph 6.2.

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 11 of 14
Print Date: 19-12-2024

Waste management regulations:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.

SECTION 14: Information relating to carriage

14.1 UN number

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

UN number or ID number: UN1993

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

UN number or ID number: UN1993

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

UN number or ID number: UN1993

14.2 Proper load name according to UN Model Regulations

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Tetraethyl silicate)

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Tetraethyl silicate)

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Tetraethyl silicate)

14.3 Transport hazard class(es)

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

Transport hazard class(es): 3

Labels: 3

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

Transport hazard class(es): 3

Labels: 3

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

Transport hazard class(es): 3

Labels: 3

14.4 Packing group

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

Packing group: III

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

Packing group: III

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

Packing group: III

14.5 Environmental hazards

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 12 of 14
Print Date: 19-12-2024

Environmental hazards: No

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

Marine pollutant: No

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

Environmental hazards: No

14.6 Special precautions for the user

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

Special precautions for user

Special regulations: 274, 601

Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

Special precautions for user

Special regulations: 274, 223, 955

EmS Codes: F-E, S-E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

Special precautions for user

Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

Maritime transport in bulk according to IMO instruments: Not relevant

SECTION 15: Legally required information

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

Article 95, REGULATION (EU) No 528/2012:

Not relevant

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH):

Not relevant

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer:

Not relevant

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products:

Not relevant

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date:

Not relevant

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 13 of 14
Print Date: 19-12-2024

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- ✓ Ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- ✓ Tricks and jokes,
- ✓ Games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains Dimethylbis[(1-oxoneodecyl)oxy]stannane.

1. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.
2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:
 - (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes
 - (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming
 - (c) any totally or partly submerged appliance or equipment.
3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: Other information**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks:

Not relevant

Texts of the legislative phrases mentioned in section 2:

H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H301 - Toxic if swallowed.

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

According to directive 1907/2006/EC, Article 32
Version 2.0 Revision Date: 05-02-2024
Trade name: Kneadable silicone Resilstuc - tube hardener

Page 14 of 14
Print Date: 19-12-2024

Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR:	European agreement concerning the international carriage of dangerous goods by road
IMDG:	International maritime dangerous goods code
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organisation
COD:	Chemical Oxygen Demand
BOD5:	5day biochemical oxygen demand
BCF:	Bioconcentration factor
LD50:	Lethal Dose 50
LC50:	Lethal Concentration 50
EC50:	Effective concentration 50
LogPOW:	Octanol/water partition coefficient
Koc:	Partition coefficient of organic carbon
UFI:	unique formula identifier
IARC:	International Agency for Research on Cancer