

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 3 (replaces version 2)

Revision: 19.01.2023

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

1.1 Product identifier

Trade name: Sil Pack (push valve)

Article number: 86843

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

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

Application of the substance / the mixture Adhesive

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 3 H229 Pressurised container: May burst if heated.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms Void

Signal word Warning

Hazard statements

H229 Pressurised container: May burst if heated.

Precautionary statements

P251 Do not pierce or burn, even after use.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

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

Safety data sheet available on request.

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

540-97-6	Dodecamethylcyclohexasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
556-67-2	octamethylcyclotetrasiloxane

vPvB:

540-97-6	Dodecamethylcyclohexasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
556-67-2	octamethylcyclotetrasiloxane

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

The mixture composition is comprised of adhesive in an integrated container with propellant. Approximately 5 -10% propellant per 200 ml of adhesive product.

Dangerous components:

CAS: 29118-24-9 ELINCS: 471-480-0 Reg.nr.: 01-0000019758-54	Trans-1,3,3,3-Tetrafluoropropylene ⚠ Flam. Gas 1A, H220; Press. Gas (Liq.), H280, EUH044	5-10%
CAS: 13463-67-7 EINECS: 236-675-5	Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] substance with a Community workplace exposure limit	<3%
CAS: 540-97-6 EINECS: 208-762-8 Reg.nr.: 01-2119517435-42	Dodecamethylcyclohexasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	0-<0.5%
CAS: 541-02-6 EINECS: 208-764-9 Reg.nr.: 01-2119511367-43	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	0-<0.5%
CAS: 556-67-2 EINECS: 209-136-7 Reg.nr.: 01-2119529238-36	octamethylcyclotetrasiloxane ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361f; ⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=10) PBT; vPvB	0-<0.5%
CAS: 68928-76-7 Reg.nr.: 01-2120770324-57	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	0-<0.1%

SVHC

540-97-6	Dodecamethylcyclohexasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
556-67-2	octamethylcyclotetrasiloxane

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation Supply fresh air; consult doctor in case of symptoms.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing Rinse out mouth.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Wear full protective suit.

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· **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Allow to solidify. Collect mechanically.

Dispose of contaminated material as waste according to item 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with the eyes and skin.

· Information about protection against explosions and fires:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and containers:

Store in cool location.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility: Store away from oxidising agents.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

· Storage class 2

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

WEL Long-term value: 10* 4** mg/m³
*total inhalable **respirable

· Regulatory information WEL: EH40/2020

· DNELs

29118-24-9 Trans-1,3,3,3-Tetrafluoropropylene

Inhalative Long term systemic effect 3,902 (Worker)

540-97-6 Dodecamethylcyclohexasiloxane

Inhalative Long term systemic effect 11 mg/m³ (Worker)

Acute local effect 6.1 mg/m³ (Worker)

Long term local effect 1.22 mg/m³ (Worker)

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

Inhalative Long term systemic effect 97.3 mg/m³ (Worker)

Acute local effect 24.2 mg/m³ (Worker)

Long term local effect 24.2 mg/m³ (Worker)

Acute systemic effect 97.3 mg/m³ (Worker)

556-67-2 octamethylcyclotetrasiloxane

Dermal Long term systemic effect 73 (Worker)

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Inhalative	Long term systemic effect	73 mg/m ³ (Worker)
	Long term local effect	73 mg/m ³ (Worker)

· PNECs**13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]**

PNEC 0.184 mg/l (Aqua (freshwater))
 0.193 mg/l (Aqua (intermittent))
 0.0184 mg/l (Aqua (marine water))
 1,000 mg/kg (Freshwater sediment)
 100 mg/kg (Marine water sediment)
 100 mg/l (Sewage treatment plant)
 100 mg/kg (Soil)

540-97-6 Dodecamethylcyclohexasiloxane

PNEC 2.286 mg/kg (Freshwater sediment)
 0.282 mg/kg (Marine water sediment)
 >1 mg/l (Sewage treatment plant)
 3.336 mg/kg (Soil)

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

PNEC >0.0012 mg/l (Aqua (freshwater))
 >0.0012 mg/l (Aqua (marine water))
 2.4 mg/kg (Freshwater sediment)
 0.24 mg/kg (Marine water sediment)
 >10 mg/l (Sewage treatment plant)
 1.1 mg/kg (Soil)

556-67-2 octamethylcyclotetrasiloxane

PNEC 0.0015 mg/l (Aqua (freshwater))
 3 mg/kg (Freshwater sediment)
 0.3 mg/kg (Marine water sediment)
 10 mg/l (Sewage treatment plant)
 0.54 mg/kg (Soil)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures** Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
Use breathing protection in case of insufficient ventilation.
Filter A (EN 14387)
- **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Wear suitable gloves tested to EN 374

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

Value for the permeation: Level 6 > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye/face protection**

Safety glasses (EN 166)

· **Body protection:** Protective work clothing (EN-13034/6)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Aerosol
· Colour:	Black
· Odour:	Acetic acid
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	Not applicable, as aerosol
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable, as aerosol
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Not miscible / difficult to mix
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density	Not determined
· Relative density at 20 °C	1.02
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Not determined.
· Solvent content:	
· Organic solvents:	16 g/l VOC
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void

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· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Stable at ambient temperature
- **10.3 Possibility of hazardous reactions** Reacts with oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidising agents
- **10.6 Hazardous decomposition products:**
Formaldehyde
Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

29118-24-9 Trans-1,3,3,3-Tetrafluoropropylene		
	ErC 50	>170 mg/l (Algae) (72 hr)
13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]		
Oral	LD50	>20,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (rbt)
	ErC 50	61 mg/l (Algae) (EPA 600/9-78-018, 72 hr)
556-67-2 octamethylcyclotetrasiloxane		
Oral	LD50	4,800 mg/kg (Rat) (OCSE 401)
Dermal	LD50	>2,400 mg/kg (Rat) (OECD TG 402)
Inhalative	LC50 (4 hr)	36 mg/l (Rat) (OECD TG 403)
68928-76-7 Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane		
Oral	LD50	892 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

540-97-6	Dodecamethylcyclohexasiloxane	List II
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	List II
556-67-2	octamethylcyclotetrasiloxane	List II, III

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

29118-24-9 Trans-1,3,3,3-Tetrafluoropropylene

EC50 (48 hr) >160 mg/l (Daphnia magna)

LC50 (96 hr) 117 mg/l (Fish)

13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

LC50 (48 hr) 5.5 mg/l (Crustacea)

LC50 (96 hr) >100 mg/l (Oncorhynchus mykiss) (= OECD 203)

556-67-2 octamethylcyclotetrasiloxane

LC50 10 µg/l/(14 days) (Fish)

NOEC 0.0044 mg/l/(4 days) (Algae)

0.0044 mg/l/(14 days) (Fish)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:

540-97-6 Dodecamethylcyclohexasiloxane

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

556-67-2 octamethylcyclotetrasiloxane

vPvB:

540-97-6 Dodecamethylcyclohexasiloxane

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

556-67-2 octamethylcyclotetrasiloxane

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR

1950 AEROSOLS

IMDG, IATA

AEROSOLS

14.3 Transport hazard class(es)

ADR



Class

2 5A Gases.

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· Label	2.2
· IMDG, IATA	
	
· Class	2 Gases.
· Label	2.2
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Gases.
· Kemler Number:	-
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.2

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations

· Technical instructions (air):

Class	Share in %
I	0.3

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **Substances of very high concern (SVHC) according to UK REACH**

540-97-6 Dodecamethylcyclohexasiloxane

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541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

556-67-2 octamethylcyclotetrasiloxane

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.
 H226 Flammable liquid and vapour.
 H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 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.
 EUH044 Risk of explosion if heated under confinement.

Department issuing data specification sheet: Environment protection department

Abbreviations and acronyms:

RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (UK REACH)
 PNEC: Predicted No-Effect Concentration (UK REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Gas 1A: Flammable gases – Category 1A
 Aerosol 3: Aerosols – Category 3
 Press. Gas (Liq.): Gases under pressure – Liquefied gas
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Skin Sens. 1A: Skin sensitisation – Category 1A
 Repr. 2: Reproductive toxicity – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Data compared to the previous version altered. *