



VACU-PROOF

Print date 15.11.2022
Revision date 13.10.2022
Version 1.6 (en)
replaces version of 15.03.2019 (1.5)

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

1.1 Product identifier

Trade name/designation VACU-PROOF
Substance name polydimethylsiloxane
EC No. 613-156-5
REACH No. Not relevant (polymer).
CAS No. 63148-62-9

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

Sector of uses [SU]
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Use of the substance/mixture
Vacuumproof lubricant and sealing compound.

1.3 Details of the supplier of the safety data sheet

Supplier
Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
D-78224 Singen (Htwl.)
Telephone +49 7731 882-0
Telefax +49 7731 882-266
E-mail info@elma-ultrasonic.com
Website www.elma-ultrasonic.com

Department responsible for information:
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

1.4 Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg (Sprache/Language: DE, +49 761 19240 EN)

*** SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Remark
The product is not classified as dangerous according to Regulation (EC) 1272/2008 [GHS].
The product is not classified as dangerous according to UN-GHS.
The product does not require a hazard warning label according to Regulation (EC) No 1272/2008 [GHS].

2.2 Label elements

No data available

*** 2.3 Other hazards**

*** Adverse human health effects and symptoms**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

*** Adverse environmental effects**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

*** Results of PBT and vPvB assessment**

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII
dodecamethylcyclohexasiloxane



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*** SECTION 3: Composition / information on ingredients**

3.1 Substances

Substance name	polydimethylsiloxane
EC No.	613-156-5
REACH No.	Not relevant (polymer).
CAS No.	63148-62-9
Hazardous impurities	Dodecamethylcyclohexasiloxane

* **Additional information**
This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:
dodecamethylcyclohexasiloxane ≤ 3%

*** 3.2 Mixtures**

not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

In the event of persistent symptoms seek medical treatment.

Following ingestion

Medical treatment necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Gastrointestinal complaints

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

No further informations available.

*** SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media

Foam
Extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Carbon monoxide
Silicon dioxide (SiO₂)



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* **5.3 Advice for firefighters**

- * **Special protective equipment for firefighters**
Do not inhale explosion and combustion gases.

* **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

For emergency responders

Personal protection equipment
Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Send in suitable containers for recovery or disposal.
Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).

* **6.4 Reference to other sections**

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

No special measures are necessary.

Avoid:

Eye contact

The product is:

Combustible

Advices on general occupational hygiene

Make available sufficient washing facilities
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in unopened original container.

Storage class

10 Combustible liquids that cannot be assigned to any of the above storage classes

Materials to avoid

Do not store together with:

Oxidising agent

Further information on storage conditions

Keep locked up and out of reach of children.
Protect from heat and direct solar radiation.
Storage time: 5 years.



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7.3 Specific end use(s)

Recommendation
no further

*** SECTION 8: Exposure controls/personal protection**

*** 8.1 Control parameters**

No data available

8.2 Exposure controls

Personal protection equipment

Eye/face protection
safety goggles

Environmental exposure controls

Technical measures to prevent exposure
Avoid penetration into the subsoil/soil.
Do not discharge into the drains/surface waters/groundwater.

Additional information

Occupational exposure limits: No relevant informations available.

*** SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
colourless

Odour
odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point	Melting point -50 °C		
Boiling point or initial boiling point and boiling range			not available
flammability	solid		not relevant
flammability	gaseous		not relevant
Lower and upper explosion limit	Upper explosion limit		not available
Lower and upper explosion limit	Lower explosion limit		not available
Flash point	> 300 °C	DIN 51376 (09/1981: replaced by DIN ISO 2592)	
Auto-ignition temperature	> 400 °C	DIN 51794	
Decomposition temperature	> 150 °C		
pH	in delivery state		not applicable
Viscosity	19000- 21000 mm ² /s (25°C)		viscous



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	Value	Method	Source, Remark
Solubility(ies)	Water solubility		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	1.33 hPa (20°C)		
Density and/or relative density	0.97 g/cm ³ (25°C)		
Relative vapour density			not relevant
particle characteristics			not applicable (liquid).

* **9.2 Other information**

* **Information with regard to physical hazard classes**

* **Explosives**

* **Assessment/classification**

This product does not contain any explosive substances (CLP I 2.1.4.3 a).
CLP I 2.1.4.3 a: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

* **flammable gases**

* **Assessment/classification**

not applicable (liquid).

* **Aerosols**

* **Assessment/classification**

not relevant - no aerosol.
The classification criteria for this hazard class are not met by definition.

* **Oxidising gas**

* **Assessment/classification**

not applicable (liquid).

* **Gases under pressure**

* **Assessment/classification**

not applicable (liquid - no dissolved gas).

* **flammable liquids**

Safety characteristics

	Value	Method, Result	Source, Remark
Flash point (°C)	> 93 °C		

* **Assessment/classification**

Not classified as flammable liquids.

* **flammable solids**

* **Assessment/classification**

not applicable (liquid).

* **Self-reactive substances and mixtures**

* **Assessment/classification**

This product does not contain any self-reactive substances (CLP I 2.8.4.2 a).
CLP I 2.8.4.2 a: There are no chemical groups present in the molecule associated with explosive or self reactive properties.

* **Pyrophoric liquids**

* **Assessment/classification**

Not pyrophoric.



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* **Pyrophoric solids**

* **Assessment/classification**
not applicable (liquid).

* **self-heating substances and mixtures**

* **Assessment/classification**
No self-heating substance.

* **Substances or mixtures which, in contact with water, emit flammable gases**

* **Assessment/classification**
not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

* **Oxidising liquids**

* **Assessment/classification**
Not oxidising.

* **Oxidising solids**

* **Assessment/classification**
not applicable (liquid).

* **Organic peroxides**

* **Assessment/classification**
No organic peroxide.

* **Corrosive to metals**

Safety characteristics

Value	Method, Result	Source, Remark
		No substance corrosive to metals.

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

* **Desensitised explosives**

* **Assessment/classification**
Not classified as a desensitized explosive.

Other safety characteristics

	Value	Method	Source, Remark
Solvent content	0 %		
Explosive properties			none
Oxidising properties			none

* **Other information**
No further relevant informations available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Violent reaction with:
Oxidising agent



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10.2 Chemical stability

Stable at ambient temperature.

10.3 Possibility of hazardous reactions

Reactions with strong oxidising agents.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Oxidising agent
Nitric acid

10.6 Hazardous decomposition products

No decomposition if used as directed.

*** SECTION 11: Toxicological information**

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

*** Acute toxicity**

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	LD50: > 5000 mg/kg Species Rat		
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	Acute inhalation toxicity (vapour)		not relevant

*** Assessment/classification**

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

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant. Species Rabbit		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant. Species Rabbit		

*** Sensitisation to the respiratory tract**

*** Assessment/classification**

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

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			



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* **Germ cell mutagenicity**

* **Assessment/classification**

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

* **Carcinogenicity**

* **Assessment/classification**

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

* **Reproductive toxicity**

* **Assessment/classification**

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

* **Overall Assessment on CMR properties**

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

* **STOT-single exposure**

* **STOT SE 1 and 2**

* **Assessment/classification**

The mixture is not classified as specific target organ toxicant (single exposure).
Based on available data, the classification criteria are not met.

* **STOT SE 3**

* **Irritation to respiratory tract**

* **Assessment/classification**

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

* **Narcotic effects**

* **Assessment/classification**

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

* **STOT-repeated exposure**

* **Assessment/classification**

The mixture is not classified as specific target organ toxicant (repeated exposure).
Based on available data, the classification criteria are not met.

* **Aspiration hazard**

* **Assessment/classification**

The mixture is not classified as aspiration hazardous.
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

* **SECTION 12: Ecological information**

* **12.1 Toxicity**



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Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC0 200 mg/L Species Leuciscus idus (golden orfe)		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

* **Assessment/classification**

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

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			Not readily biodegradable (according to OECD criteria)
Biodegradation		Activated charcoal adsorption	Part of the components can be readily eliminated from water.
Biodegradation	Degradation rate 4.47 % Test duration 28 d		CAS No.540-97-6 Dodecamethylcyclohexasiloxane CO ₂ formation (% of the theoretical value).

* **12.3 Bioaccumulative potential**

* **Assessment/classification**

polydimethylsiloxane: not available.
dodecamethylcyclohexasiloxane: Has the potential to bioaccumulate (log Pow: 8.87).

* **12.4 Mobility in soil**

* **Assessment/classification**

polydimethylsiloxane: not available.
dodecamethylcyclohexasiloxane: strong adsorption on soil, immobile (log Koc: 5.9).

* **12.5 Results of PBT and vPvB assessment**

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII
dodecamethylcyclohexasiloxane

* **The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII**

CAS No.	EC No.	Substance name	PBT	vPvB
540-97-6	208-762-8	Dodecamethylcyclohexasiloxane	No	Yes.

12.6 Endocrine disrupting properties



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

Value	Method	Source, Remark
Ozone depletion potential (ODP):		Based on available data, the classification criteria are not met.

Additional ecotoxicological information

Value	Method	Source, Remark
AOX		The product does not contain any organically bound halogens according to the recipe.

Additional information

Do not allow uncontrolled discharge of product into the environment.
No further relevant informations available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
130206 *	synthetic engine, gear and lubricating oils

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Completely emptied packages can be recycled.

Remark

Send to a hazardous waste incinerator facility under observation of official regulations.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No
14.6 Special precautions for user	none		



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14.7 Maritime transport in bulk according to IMO instruments

not relevant

Land transport (ADR/RID)

Remark

Not classified for this transport carrier.

Sea transport (IMDG)

Remark

No hazardous material as defined by the prescriptions.

Air transport (ICAO-TI / IATA-DGR)

Remark

No hazardous material as defined by the prescriptions.

*** SECTION 15: Regulatory information**

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

*** EU legislation**

Authorisations

not relevant

Restrictions on use

not relevant

*** Other regulations (EU)**

To follow:

Directive 2012/18/EU, Annex I: not mentioned.

*** Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC content, delivery state 100 %

15.2 Chemical Safety Assessment

For this product a chemical safety assessment has not been carried out.

*** SECTION 16: Other information**

*** Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE: Acute Toxicity Estimate

AVV: Waste Shipment Ordinance (DE)

DGR: Dangerous Goods Regulations (IATA)

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

OECD: Organisation for Economic Cooperation and Development

PBT: persistent and bioaccumulative and toxic

RID: Dangerous goods regulations for transport by rail

TI: Technical Instruction

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative

Key literature references and sources for data

Informations from our suppliers.



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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Additional information

National and local regulations concerning chemicals shall be observed.
These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Indication of changes

* Data changed compared with the previous version