



Präzisions-Abdrucksilikon Provil Novo Light

Print date 03.05.2023
Revision date 03.05.2023
Version 1.9 (en)
replaces version of 11.04.2019 (1.8)

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

1.1 Product identifier

Trade name/designation Präzisions-Abdrucksilikon Provil Novo Light

Hazard components

Cristobalite

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

Plastic for indirect surface inspection and impressions

Remark

No data available

1.3 Details of the supplier of the safety data sheet

Supplier

joke Technology GmbH
Asselborner Weg 14-16
D-51429 Bergisch Gladbach
Telephone +49 (0) 22 04 – 8 39 - 0
Telefax +49 (0) 22 04 – 8 39 - 60
E-mail info@joke.de
Website www.joke.de

Department responsible for information:

Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):

safety-data-sheet@joke.de

1.4 Emergency telephone number

Vergiftungs-I-Z. Freiburg +49 (0) 761 / 1 92 40
REACH and CLP UK CA Help Desk +44 171 635 9191

*** SECTION 2: Hazards identification**

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

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
--	--------------------------

STOT RE 1, H372

Aquatic Chronic 3, H412

Hazard statements for health hazards

H372 Causes damage to the lungs through prolonged or repeated exposure. Route of exposure: Inhalation.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.



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Remark

When working or processing (eg welding, cutting, grinding) dusts and smoke may occur, which may cause health hazards when inhaled (see section 8.2).

Additional information

This mixture does not contain any substances which either present a health or environmental hazard according to directive 67/548/EEC or have an occupational exposure limit assigned.

*** 2.2 Label elements**

*** Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard components

Cristobalite

Hazard pictograms



GHS08

Signal word

Danger

Hazard statements

H372 Causes damage to the lungs through prolonged or repeated exposure. Route of exposure: Inhalation.
 H412 Harmful to aquatic life with long lasting effects.

*** Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P284 In case of inadequate ventilation wear respiratory protection.
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

*** Remark**

The product is classified and labeled according to CLP regulation.

*** 2.3 Other hazards**

*** Adverse environmental effects**

This substance meets the PBT criteria of REACH, Annex XIII.
 This substance meets the vPvB criteria of REACH, Annex XIII.
 This product contains a substance that has endocrine disrupting properties with respect to non-target organisms.

*** Results of PBT and vPvB assessment**

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

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

3.1 Substances

not applicable

*** 3.2 Mixtures**

*** Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
14464-46-1	238-455-4	Cristobalite	25 - 50 weight-%	STOT RE 1; H372	

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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
556-67-2	209-136-7	octamethylcyclotetrasiloxane	≥ 0.025 ≤ 0.25 weight-%	Repr. 2; H361f Aquatic Chronic 1; H410 Flam. Liq. 3; H226	M=10 (Aquatic Chronic 1) ATE(oral): 4800 mg/kg ATE(dermal): 2375 mg/kg ATE(Acute inhalation toxicity): 36 mg/L

* **Remark**
 Full text of H- and EUH-phrases: see section 16.

* **SECTION 4: First aid measures*** **4.1 Description of first aid measures*** **General information**

Remove victim out of the danger area.

* **Following inhalation**

Remove casualty to fresh air and keep warm and at rest.
 If breathing is irregular or stopped, administer artificial respiration.
 Provide fresh air.
 In case of unconsciousness and breathing, place the patient in the recovery position and seek medical advice.

Following skin contact

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

* **After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
 Remove contact lenses, if possible

* **Following ingestion**

Rinse mouth immediately and drink plenty of water.
 If symptoms persist consult a doctor.

* **Self-protection of the first aider**

First aider: Pay attention to self-protection!

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

Dyspnoea
 Cough

* **4.3 Indication of any immediate medical attention and special treatment needed*** **Notes for the doctor**

Subsequent observance for pneumonia and lung oedema.



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*** SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant 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 the event of fire the following can be released:
Carbon dioxide (CO₂)
Carbon monoxide
In case of fire formation of dangerous gases possible.

*** 5.3 Advice for firefighters**

*** Special protective equipment for firefighters**

In case of fire: Wear self-contained breathing apparatus.

*** SECTION 6: Accidental release measures**

*** 6.1 Personal precautions, protective equipment and emergency procedures**

*** For non-emergency personnel**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use personal protection equipment.
Remove persons to safety.

*** For emergency responders**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Personal protection equipment
Ensure adequate ventilation.

*** 6.2 Environmental precautions**

Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.
Suppress gases/vapours/mists with water spray jet.
In case of pollution of waters or sewers, inform the competent authorities.

*** 6.3 Methods and material for containment and cleaning up**

*** For containment**

Suitable material for taking up:
Universal binder
Kieselguhr
Send in suitable containers for recovery or disposal.

*** 6.4 Reference to other sections**

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



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*** SECTION 7: Handling and storage**

*** 7.1 Precautions for safe handling**

*** Protective measures**

Take the usual precautions when handling with chemicals.
 Use only in well-ventilated areas.
 Do not inhale gases/vapours/aerosols.
 Avoid:
 Eye contact
 Skin contact
 generation/formation of aerosols
 Avoid effect of heat.
 Keep away from sources of ignition - No smoking.
 Do not mix with:
 Acid
 Base
 Metal
 Oxidising agent

*** Advices on general occupational hygiene**

Wash hands before breaks and after work.
 When using do not eat, drink, smoke, sniff.

*** 7.2 Conditions for safe storage, including any incompatibilities**

*** Requirements for storage rooms and vessels**

Keep container tightly closed.

*** Storage class**

6.1C Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

*** Materials to avoid**

Do not store together with:
 Food and feedingstuffs

*** Further information on storage conditions**

Storage: cool and dry

7.3 Specific end use(s)

No data available

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

*** 8.1 Control parameters**

*** Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
14464-46-1		Cristobalite, total	0,1 (1) [mg/m ³] (1) Respirable fraction (IE)

*** DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
556-67-2	octamethylcyclotetrasiloxane	73 mg/m ³	long-term inhalative (systemic)	

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CAS No.	Substance name	DNEL value	DNEL type	Remark
556-67-2	octamethylcyclotetrasiloxane	73 mg/m ³	long-term inhalative (local)	

* **DNEL Consumer**

CAS No.	Substance name	DNEL value	DNEL type	Remark
556-67-2	octamethylcyclotetrasiloxane	3.7 mg/kg	Long-term – oral, systemic effects	
556-67-2	octamethylcyclotetrasiloxane	13 mg/m ³	long-term inhalative (systemic)	
556-67-2	octamethylcyclotetrasiloxane	13 mg/m ³	long-term inhalative (local)	

* **PNEC**

CAS No.	Substance name	PNEC Value	PNEC type	Remark
556-67-2	octamethylcyclotetrasiloxane	0.0015 mg/L	aquatic, freshwater	
556-67-2	octamethylcyclotetrasiloxane	0.00015 mg/L	aquatic, marine water	
556-67-2	octamethylcyclotetrasiloxane	10 mg/L	sewage treatment plant (STP)	
556-67-2	octamethylcyclotetrasiloxane	3 mg/kg	sediment, freshwater	
556-67-2	octamethylcyclotetrasiloxane	0.3 mg/kg	sediment, marine water	

* **8.2 Exposure controls*** **Appropriate engineering controls*** **Remark**

See section 7. No additional measures necessary.

* **Personal protection equipment*** **Eye/face protection**

tightly fitting goggles
 EN 166

* **Hand protection**

Selection of the glove material considering the breakthrough times, permeation rates and the degradation.
 impermeable gloves
 EN ISO 374

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Check leak tightness/impermeability prior to use.

Breakthrough times and swelling properties of the material must be taken into consideration.

Suitable material:

NBR (Nitrile rubber)

Thickness of the glove material 0,11mm

Breakthrough time: >30 min

Body protection:

Protective clothing

* **Respiratory protection**

Respiratory protection necessary at:
 insufficient ventilation
 ABEK-P3

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*** SECTION 9: Physical and chemical properties***** 9.1 Information on basic physical and chemical properties***** Physical state**

Paste

*** Colour**

black

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	175 °C		CAS No.556-67-2 octamethylcyclotetrasiloxane
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	51 °C		CAS No.556-67-2 octamethylcyclotetrasiloxane
Auto-ignition temperature	384 °C		The product is not self-igniting.
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility		partially miscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	1.3 hPa (25°C)		CAS No.556-67-2 octamethylcyclotetrasiloxane
Density and/or relative density	1.6 g/cm ³ (20°C)		
Relative vapour density	not determined		
particle characteristics	not determined		

*** 9.2 Other information***** Other safety characteristics**

	Value	Method	Source, Remark
Explosive properties			The product is not explosive.



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*** SECTION 10: Stability and reactivity**

*** 10.1 Reactivity**

This information is not available.

*** 10.2 Chemical stability**

This information is not available.

*** 10.3 Possibility of hazardous reactions**

No known hazardous reactions.

*** 10.4 Conditions to avoid**

Evolution of heat.
 High temperatures, ignition sources, incompatible materials

*** 10.5 Incompatible materials**

Materials to avoid
 Acid, concentrated
 Oxidising agent, strong
 Metals
 Bases, strong

*** 10.6 Hazardous decomposition products**

Does not decompose when used for intended uses.
 No known hazardous decomposition products.

*** 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	CAS No.556-67-2	OECD 401	
	octamethylcyclotetrasiloxane LD50: 4800 mg/kg Species Rat		
Acute dermal toxicity	CAS No.556-67-2	OECD 402	
	octamethylcyclotetrasiloxane LD50: 2375 mg/kg Species Rat		
Acute inhalation toxicity	CAS No.556-67-2	OECD 403	
	octamethylcyclotetrasiloxane LC50: 36 mg/L Species Rat Exposure time 4 h		

*** Assessment/classification**

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



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* **Skin corrosion/irritation**

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

* **Serious eye damage/irritation**

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

* **Sensitisation to the respiratory tract**

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

* **Skin sensitisation**

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

* **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.

* **STOT-single exposure**

* **STOT SE 1 and 2**
* **Assessment/classification**
Based on available data, the classification criteria are not met.

* **STOT-repeated exposure**

* **Assessment/classification**
Causes damage to the lungs through prolonged or repeated exposure if inhaled.

* **Aspiration hazard**

* **Remark**
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	CAS No.556-67-2 octamethylcyclotetrasiloxane	List II,III	

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*** SECTION 12: Ecological information***** 12.1 Toxicity***** Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	CAS No.556-67-2 octamethylcyclotetrasiloxane NOEC \geq 0.0044 mg/L Test duration 91 d		
	CAS No.556-67-2 octamethylcyclotetrasiloxane NOEC \geq 0.022 mg/L Test duration 96 h		
Acute (short-term) toxicity to crustacea	CAS No.556-67-2 octamethylcyclotetrasiloxane NOEC \geq 0.015 mg/L Test duration 48 h		
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.556-67-2 octamethylcyclotetrasiloxane NOEC \geq 0.015 mg/L Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No.556-67-2 octamethylcyclotetrasiloxane NOEC $<$ 0.022 mg/L Test duration 96 h ErC50: $>$ 0.022 mg/L Test duration 96 h		
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	Degradation rate 3.7 % Test duration 29 d	OECD	CAS No.556-67-2 octamethylcyclotetrasiloxane not applicable

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*** 12.3 Bioaccumulative potential**

	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) 12400		CAS No.556-67-2 octamethylcyclotetrasiloxane

*** 12.4 Mobility in soil***** Assessment/classification**

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

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

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

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

CAS No.	EC No.	Substance name	PBT	vPvB
556-67-2	209-136-7	octamethylcyclotetrasiloxane	Yes.	Yes.

*** 12.6 Endocrine disrupting properties**

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties	CAS No.556-67-2 octamethylcyclotetrasiloxane		The substance is identified as having endocrine disrupting properties.

12.7 Other adverse effects*** Additional ecotoxicological information***** Additional information**

Product is not allowed to be discharged into the ground water or aquatic environment.
 Danger to drinking water even in the event of leakage of the smallest quantities into the subsurface.

*** SECTION 13: Disposal considerations***** 13.1 Waste treatment methods***** Appropriate disposal / Product**

Dispose of waste according to applicable legislation.
 Smaller quantities can be deposited together with household waste.

*** Appropriate disposal / Package**

Handle contaminated packages in the same way as the substance itself.
 Dispose of according to 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)	-	-	-



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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

This information is not available.

14.7 Maritime transport in bulk according to IMO instruments

This information is not available.

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

Land transport (ADR/RID)

Remark

Not classified for this transport carrier.

Sea transport (IMDG)

Remark

Not classified for this transport carrier.

Air transport (ICAO-TI / IATA-DGR)

Remark

Not classified for this transport carrier.

* **SECTION 15: Regulatory information**

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

* **EU legislation**

Authorisations

No data available

* **Restrictions on use**

Regulation (EC) No 1907/2006 Annex XVII Restriction conditions: 3, 70

* **15.2 Chemical Safety Assessment**

* **National regulations**

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

* **SECTION 16: Other information**

* **Indication of changes**

* Data changed compared with the previous version



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* Abbreviations and acronyms

REACH: Registration, Evaluation and Authorization of Chemicals
SU: use category
CLP: Classification, Labelling and Packaging
STOT RE 1: Specific target organ toxicity (repeated exposure), Category 1
Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
CAS: Chemical Abstracts Service
SCL: Specific concentration limit
ATE: Acute Toxicity Estimate
Repr. 2: Reproductive toxicant, Category 2
Aquatic Chronic 1: Long-term (chronic) aquatic hazard, Category 1
Flam. Liq. 3: Flammable Liquids, Category 3
M-factor: Multiplication factor
CO₂: Carbon dioxide
DNEL: derived no-effect level
PNEC: Predicted No Effect Concentration
EN: European Standard
ISO: International Organization for Standardization
OECD: Organisation for Economic Cooperation and Development
LD₅₀: Lethal (fatal) Dose 50%
LC₅₀: Lethal (fatal) Concentration 50%
STOT SE 1: Specific target organ toxicity (single exposure), Category 1
STOT SE 2: Specific target organ toxicity (single exposure), Category 2
NOEC: No Observed Effect Concentration
ErC₅₀: Effective Concentration 50 % reduction in growth rate
BCF: Bioconcentration Factor
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Dangerous goods regulations for transport by rail
IMDG: International Maritime Dangerous Goods
ICAO: International Civil Aviation Organization
DGR: Dangerous Goods Regulations (IATA)
IATA: International Air Transport Association
WGK: water hazard class
JArbSchG: Youth Labor Protection Act (DE)
ChemVerbotsV: Chemicals Prohibition Ordinance (DE)

* Key literature references and sources for data

European Chemicals Agency, <http://echa.europa.eu/>.
Datasheets of the manufacturer

* Additional information

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.
National and local regulations concerning chemicals shall be observed.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H226 Flammable liquid and vapour.
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

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

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