

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

- **1.1 Product identifier**
- **Trade name: REINZOSIL (200 ml)**
- **MSDS code:** 70-31414-20
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Sealant
Silicone sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Reinz-Dichtungs-GmbH
Reinzstr. 3-7
D-89233 Neu-Ulm
Germany
Tel.: +49-(0)731-7046-0
E-Mail: sdb.qus@dana.com
- **Further information obtainable from:** Department ASU
- **1.4 Emergency telephone number:** +49 731 / 7046 - 301

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 2 H223-H229 Flammable aerosol. 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 CLP regulation.
- **Hazard pictograms** GHS02
- **Signal word** Warning
- **Hazard statements**
H223-H229 Flammable aerosol. Pressurised container: May burst if heated.
- **Precautionary statements**
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- **Supplemental information:**
EUH210 Safety data sheet available on request.
- **2.3 Other hazards** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:**
Polydimethylsiloxane with inorganic fillers and oximosilane as curing agent
Packed in: Two-chamber pressure can
Inner chamber (discharge):
Polydimethylsiloxane with inorganic fillers and oximosilane as curing agent

(Contd. on page 2)



Printing date 31.07.2018

Version number 15

Revision: 17.07.2018

Trade name: REINZOSIL (200 ml)

(Contd. of page 1)

Outer chamber:

Propane, butane, isobutane liquid gas mixture according to DIN 51622 as propellant

Active substance with propellant

· Dangerous components:

CAS: 74-98-6	propane	1-<5%
EINECS: 200-827-9	⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	
Reg.nr.: 01-2119486944-21-xxxx		
CAS: 58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime	1-<5%
EC number: 700-810-0	⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	
Reg.nr.: 01-2120006148-66-xxxx		
CAS: 106-97-8	butane	1-<5%
EINECS: 203-448-7	⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	
Reg.nr.: 01-2119474691-32-xxxx		
CAS: 128446-60-6	3-Aminopropyl(methyl)silsesquioxane, ethoxy-terminated	1-<5%
	⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	

· SVHC -**· Additional information:**

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

While curing the following substances are formed and released by a reaction with atmospheric humidity:

CAS: 623-40-5	2-Pentanone oxime
ELINCS: 484-470-6	⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412
Reg.nr.: 01-2119980079-27-xxxx	

SECTION 4: First aid measures**· 4.1 Description of first aid measures****· General information:** Take affected persons out into the fresh air.**· After inhalation:** Supply fresh air; consult doctor in case of complaints.**· After skin contact:**

Remove from the skin using a cloth or paper. Then clean with water and soap.

If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.**· After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

· Information for doctor: 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:**

Use fire extinguishing methods suitable to surrounding conditions.

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**· 5.2 Special hazards arising from the substance or mixture** No further relevant information available.**· 5.3 Advice for firefighters****· Protective equipment:** Wear self-contained respiratory protective device.**SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

(Contd. on page 3)



Printing date 31.07.2018

Version number 15

Revision: 17.07.2018

Trade name: REINZOSIL (200 ml)

(Contd. of page 2)

- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Pick up mechanically.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
By a reaction with atmospheric humidity by-products are released. See chapter 8.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
CAS: 106-97-8 butane
WEL Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)
- **Additional Occupational Exposure Limit Values for possible hazards during processing:**
While curing the following substances are formed and released by a reaction with atmospheric humidity:
2-Pentanoxime (CAS 623-40-5)
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter AX
For further guidance,
please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide".
- **Protection of hands:**
- **Material of gloves** Not applicable.
- **Penetration time of glove material** Not applicable.
- **Eye protection:** Safety glasses

(Contd. on page 4)

Trade name: REINZOSIL (200 ml)

(Contd. of page 3)

· **Body protection:**

Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Pasty
Colour:	Anthracite
Odour:	Characteristic
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Not applicable.

· **Flash point:** >151 °C· **Auto-ignition temperature:** Product is not selfigniting.· **Explosive properties:** Product does not present an explosion hazard.· **Density at 20 °C:** 1.07 g/cm³· **Solubility in / Miscibility with water:** Not miscible / difficult to mix.· **Solvent content:**

VOC (EU)	0.4 g/l
VOC (EC)	0.04 %

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.· **10.2 Chemical stability**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.· **10.4 Conditions to avoid** No further relevant information available.· **10.5 Incompatible materials:** No further relevant information available.· **10.6 Hazardous decomposition products:**

None if stored according to specifications.

Beginning at approx. 150 °C small amounts of formaldehyde are formed by an oxidative decomposition.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**· **Acute toxicity** Based on available data, the classification criteria are not met.· **LD/LC50 values relevant for classification:****CAS: 58190-62-8 2-Pentanone, O,O',O''-(ethenylsilyldi)trioxime**

Oral LD50 1,000-2,000 mg/kg (rat)

· **Primary irritant effect:**· **Skin corrosion/irritation** Slight irritation possible.· **Serious eye damage/irritation** Slight irritation possible.· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

(Contd. on page 5)



Printing date 31.07.2018

Version number 15

Revision: 17.07.2018

Trade name: REINZOSIL (200 ml)

(Contd. of page 4)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
CAS: 58190-62-8 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime
EC50/48 h >100 mg/L (daphnia magna)
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is not biodegradable.
- **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:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Cured product can be deposited together with domestic waste. Observe the specific related regulations of local authorities.
- **European waste catalogue**
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
16 05 05 gases in pressure containers other than those mentioned in 16 05 04
HP 3 Flammable
- **Uncleaned packaging:**
- **Recommendation:**
Empty packages totally (without drops or grains, cleaned with a spatula). Under observation of the relevant local respectively national regulations re-use or recycling is preferred.

SECTION 14: Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | <p>UN1950</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | <p>1950 DRUCKGASPACKUNGEN
AEROSOLS
AEROSOLS, flammable</p> |

(Contd. on page 6)

Trade name: REINZOSIL (200 ml)

(Contd. of page 5)

· 14.3 Transport hazard class(es)

· ADR



· Class 2 5F Gases.
· Label 2.1

· IMDG, IATA



· Class 2.1
· Label 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

Warning: Gases.

· Danger code (Kemler):

- F-D,S-U

· EMS Number:

· 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.
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.

· Segregation Code

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· Transport category

2

· Tunnel restriction code

D

· Remarks:

- Special provisions: 190, 327, 344, 625 (3.3)
- Special provisions for carriage: V14 (7.2.4); CV9, CV12 (7.5.11); S2 (8.5)

· IMDG

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· Remarks:

- Special provisions: 63, 190, 277, 327, 344, 959 (3.3)

(Contd. on page 7)



Printing date 31.07.2018

Version number 15

Revision: 17.07.2018

Trade name: REINZOSIL (200 ml)

(Contd. of page 6)

- | | |
|---|---|
| <ul style="list-style-type: none"> · IATA · Remarks: · UN "Model Regulation": | <ul style="list-style-type: none"> - Special provisions: A145, A167, A802 (4.4) UN 1950 AEROSOLS, 2.1 |
|---|---|

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 "CLP" Regulation (EC) No 1272/2008 (OJ L 353, 31.12.2008, p.1).
 "REACH" Regulation (EC) No 1907/2006 (OJ L 396, 30.12.2006, p.1, with subsequent amendments).
 COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.
 75/324/EEC relating to aerosol dispensers
 HSE EH40/2005 Workplace Exposure Limits (as amended)
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this 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.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 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)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 Flam. Gas 1: Flammable gases – Category 1
 Aerosol 2: Aerosols – Category 2
 Press. Gas (Comp.): Gases under pressure – Compressed gas
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- *** Data compared to the previous version altered.**