

# SAFETY DATA SHEET

Reinzosil

## Section 1. Identification

**GHS product identifier** : Reinzosil

**Other means of identification** : REINZOSIL 70 mL, REINZOSIL 310 mL

**Product code** : 70-31414-10, 70-31414-40, 70-31414-50

**Product use** : Sealants.

**Supplier's details** : DANA, INC.  
PO BOX 1000  
MAUMEE, OH 43537

**e-mail address of person responsible for this SDS** : sdb.qus@dana.com

**Emergency telephone number (with hours of operation)** : 1-800-222-1222

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : REINZOSIL 70 mL, REINZOSIL 310 mL

**Product code** : 70-31414-10, 70-31414-40, 70-31414-50

## Section 3. Composition/information on ingredients

| Ingredient name  | %    | Identifiers |
|--|------|-------------|
| 2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime                 | ≤5   | 58190-62-8  |
| 3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated         | ≤3   | 128446-60-6 |
| <u>Air contaminants may be formed during use of the product.</u> |      |             |
| 2-Pentanone oxime  | ≤0.1 | 623-40-5    |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog). Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : No information available.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Remark** : Not self-ignitable.

**Remark (Explosibility)** : Not considered to be a product presenting a risk of explosion.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

#### Biological exposure indices

None known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 8. Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.  
**Recommended:** Ensure an MSHA/NIOSH-approved respirator or equivalent is used.

## SECTION 9: Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid. [Paste.]  
**Color** : Anthracite.  
**Odor** : Characteristic.  
**Odor threshold** : Not available.  
**pH** : Not applicable.  
**Melting point/freezing point** : Not available.  
**Boiling point or initial boiling point and boiling range** : Not available.  
**Flash point** : >151°C (>303.8°F)  
**Flammability** : Not self-ignitable.  
**Lower and upper explosion limit/flammability limit** : Not available.  
**Vapor pressure** : Not available.  
**Relative vapor density** : Not available.  
**Relative density** : Not available.  
**Density** : 1.07 g/cm<sup>3</sup> [20°C (68°F)]  
**Solubility in water** : Insoluble.  
**Partition coefficient: n-octanol/water** : Not applicable.  
**Auto-ignition temperature** : Not self-ignitable.  
**Decomposition temperature** : Not available.  
**Viscosity** : Dynamic (room temperature): Not available.  
 Kinematic (room temperature): Not available.  
 Kinematic (40°C (104°F)): Not available.  
**Explosive properties** : Not considered to be a product presenting a risk of explosion.  
**Oxidizing properties** : Not available.  
**Particle characteristics**  
**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Keep away from heat, sparks and flame. Keep away from direct sunlight.
- Incompatible materials** : No specific data.

## Section 10. Stability and reactivity

**Hazardous decomposition products** : Measurements have shown that at temperatures above approx. 150 °C a small amount of formaldehyde is split off by oxidative degradation.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name   | Result    | Species | Dose                   | Exposure |
|---|-----------|---------|------------------------|----------|
| 2-Pentanone, O,O',O"-<br>(ethenylsilyldiyl)trioxime             | LD50 Oral | Rat     | 1000 to 2000 mg/<br>kg | -        |
| 3-Aminopropyl(methyl)<br>silsesquioxanes, ethoxy-<br>terminated | LD50 Oral | Rat     | >2000 mg/kg            | -        |
| 2-Pentanone oxime   | LD50 Oral | Rat     | 1133 mg/kg             | -        |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Irritation/Corrosion

| Product/ingredient name   | Result              | Species | Score | Exposure | Observation |
|---|---------------------|---------|-------|----------|-------------|
| Reinzosil   | Eyes - Not irritant | Rabbit  | -     | -        | -           |
|   | Skin - Not irritant | Rabbit  | -     | -        | -           |
| 3-Aminopropyl(methyl)<br>silsesquioxanes, ethoxy-<br>terminated | Eyes - Irritant     | Rabbit  | -     | -        | -           |
|   | Skin - Irritant     | Rabbit  | -     | -        | -           |

#### Conclusion/Summary

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

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

**Respiratory** : Not available.

#### Respiratory or skin sensitization

| Product/ingredient name   | Route of exposure | Species    | Result          |
|---|-------------------|------------|-----------------|
| Reinzosil   | skin              | Guinea pig | Not sensitizing |
| 3-Aminopropyl(methyl)<br>silsesquioxanes, ethoxy-<br>terminated | skin              | Guinea pig | Not sensitizing |

#### Conclusion/Summary

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

**Respiratory** : Not available.

#### Mutagenicity

| Product/ingredient name   | Test     | Experiment                                | Result   |
|---|----------|---|----------|
| 3-Aminopropyl(methyl)<br>silsesquioxanes, ethoxy-<br>terminated | OECD 471 | Experiment: In vitro<br>Subject: Bacteria | Negative |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

## Section 11. Toxicological information

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

| Name              | Category   | Route of exposure | Target organs |
|-------------------|------------|-------------------|---------------|
| 2-Pentanone oxime | Category 2 | -                 | blood, spleen |

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

## Section 11. Toxicological information

| Product/ingredient name                                  | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Reinzosil  | 11525.8      | N/A            | N/A                      | N/A                        | N/A                                 |
| 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime        | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| 3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated | 2500         | N/A            | N/A                      | N/A                        | N/A                                 |
| 2-Pentanone oxime  | 1133         | N/A            | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                           | Result               | Species                                 | Exposure |
|---|----------------------|---|----------|
| 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime | NOEC 32 mg/l         | Algae - <i>Raphidocelis subcapitata</i> | 72 hours |
|   | NOEC >100 mg/l       | Fish - <i>Oncorhynchus mykiss</i>       | 96 hours |
|   | Acute EC50 54 mg/l   | Algae - <i>Raphidocelis subcapitata</i> | 72 hours |
|   | Acute EC50 ≥100 mg/l | Daphnia                                 | 48 hours |
| 2-Pentanone oxime                                 | Acute EC50 88 mg/l   | Algae - <i>Raphidocelis subcapitata</i> | 72 hours |
|   | Acute EC50 ≥100 mg/l | Daphnia - <i>Daphnia magna</i>          | 48 hours |
|   | Acute LC50 ≥100 mg/l | Fish - <i>Oncorhynchus mykiss</i>       | 96 hours |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Persistence and degradability

**Conclusion/Summary** : Not readily biodegradable.

| Product/ingredient name                                  | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| Reinzosil  | -                 | -          | Not readily      |
| 3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated | -                 | -          | Readily          |

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | DOT Classification | TDG Classification | Mexico Classification | ADR/RID        | IMDG                 | IATA           |
|----------------------------|--------------------|--------------------|-----------------------|----------------|----------------------|----------------|
| UN number                  | Not regulated.     | Not regulated.     | Not regulated.        | Not regulated. | Not regulated.       | Not regulated. |
| UN proper shipping name    | -                  | -                  | -                     | -              | -                    | -              |
| Transport hazard class(es) | -                  | -                  | -                     | -              | -                    | -              |
| Label                      |                    |                    |                       |                |                      |                |
| Packing group              | -                  | -                  | -                     | -              | -                    | -              |
| Environmental hazards      | No.                | No.                | No.                   | No.            | Marine Pollutant: No | No.            |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not applicable.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 5(a)2 final significant new use rules:** 2-Pentanone, O,O',O''-(ethenylsilylidyne) trioxime  
**TSCA 5(e) substance consent order:** 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**TSCA 12(b) - Chemical export notification**

Not applicable.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

## Section 15. Regulatory information

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

| Name  | %    | Classification  |
|---|------|---|
| 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime       | ≤5   | ACUTE TOXICITY (oral) - Category 4<br>EYE IRRITATION - Category 2A  |
| 3-Aminopropyl(methyl)silsesquioxanes, ethoxy-terminated | ≤3   | FLAMMABLE LIQUIDS - Category 3<br>SKIN IRRITATION - Category 2<br>SERIOUS EYE DAMAGE - Category 1                                     |
| 2-Pentanone oxime                                       | ≤0.1 | ACUTE TOXICITY (oral) - Category 4<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |

### State regulations

**New York** : None of the components are listed.

### California Prop. 65

#### **VOC**

| Calculation method                         | Product as-supplied      | Product ready-for-use |
|--|--------------------------|-----------------------|
| Without volume exclusion                   | 0.4 g/l<br>0.037 % (w/w) | Not applicable        |
| With volume exclusion [water excluded]     | 0.4 g/l                  | Not applicable        |
| With volume exclusion [water not excluded] | 0.4 g/l                  | Not applicable        |

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

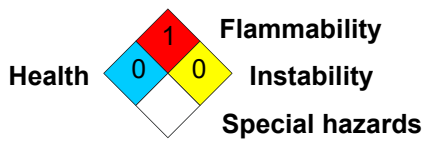
**Eurasian Economic Union** : **Russian Federation inventory:** All components are listed or exempted.

**New Zealand** : All components are listed or exempted.

**Taiwan** : All components are listed or exempted.

# Section 16. Other information

National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

### History

- Date of printing : 10/09/2024
- Date of issue/Date of revision : 10/09/2024
- Date of previous issue : 10/09/2024
- Version : 2

### Key to abbreviations

- : ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- DOT = Department of Transportation
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SGG = Segregation Group
- TDG = Transportation of Dangerous Goods
- UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.