



RTV3500

CHEMICAL CONCEPTS, INC.

Safety Data Sheet: Acetoxy Silicone Sealant

SECTION 1: Identification

1.1 Product identifier

Product name **Chem-set™ RTV 3500** — Acetoxy Silicone Sealant
Product number **Chem-set™ RTV 3500**

1.3 Recommended use of the chemical and restrictions on use

Recommended use: Adhesive, binding agents

1.4 Supplier's details

Name **Chemical-Concepts, Inc.**
Address 410 Pike Road
 Huntingdon Valley, PA 19006
 USA

Telephone 800.220.1966
email info@chemical-concepts.com

1.5 For Chemical Emergencies please contact

INFOTRAC
1.800.535.5053

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.
Precautionary Statements: Prevention: P271 Use only outdoors or in a well-ventilated area.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Other names / synonyms Silicone elastomer

Hazardous components

1. Silicon dioxide

Concentration $\geq 5 - < 10$ % (Weight)
CAS no. 7631-86-9

2. Distillates (petroleum), hydrotreated middle

Concentration $\geq 5 - < 10$ % (Weight)
CAS no. 64742-46-7

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Notes to physician: Treat symptomatically and supportively.

If inhaled If inhaled, remove to fresh air.

In case of skin contact Wash with water and soap as a precaution.
Get medical attention if symptoms occur.

In case of eye contact Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

If swallowed If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

Personal protective equipment for first-aid responders
No special precautions are necessary for first aid responders.

4.2 Most important symptoms/effects, acute and delayed

None known.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)

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5.2 Specific hazards arising from the chemical

Exposure to combustion products may be a hazard to health.

5.3 Special protective actions for fire-fighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do so.

Evacuate area.

Wear self-contained breathing apparatus for firefighting if necessary.

Use personal protective equipment.

Further information

Hazardous combustion products:

Carbon oxides

Silicon oxides

Formaldehyde

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Reference to other sections

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

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Use only with adequate ventilation.

Handle in accordance with good industrial hygiene and safety practice.
Take care to prevent spills, waste and minimize release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

Keep in properly labeled containers.
Store in accordance with the particular national regulations.

Do not store with the following product types:
Strong oxidizing agents

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Silicon dioxide (CAS: 7631-86-9)

TWA (Inhalation): 20 million particles per cubic foot (Silica) (OSHA)

2. Silicon dioxide (CAS: 7631-86-9)

TWA (Inhalation): 80 mg/m³ / %SiO₂ (Silica) (OSHA)

3. Silicon dioxide (CAS: 7631-86-9)

TWA: 6 mg/m³ (Silica) (NIOSH)

4. Distillates (petroleum), hydrotreated middle (CAS: 64742-46-7)

TWA (Inhalation): 5 mg/m³ (OSHA)

5. Distillates (petroleum), hydrotreated middle (CAS: 64742-46-7)

TWA (Inhalation): 5 mg/m³ (OSHA)

6. Distillates (petroleum), hydrotreated middle (CAS: 64742-46-7)

TWA (Inhalation): 5 mg/m³ (NIOSH)

7. Distillates (petroleum), hydrotreated middle (CAS: 64742-46-7)

ST (Inhalation): 10 mg/m³ (NIOSH)

8.2 Appropriate engineering controls

Processing may form hazardous compounds (see section 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear the following personal protective equipment:
Safety glasses

Skin protection

Skin should be washed after contact.
Wash hands before breaks and at the end of workday.

Body protection

When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

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Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Environmental exposure controls

Ensure that eye flushing systems and safety showers are located close to the working place.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Paste
Odor	Acetic acid
Odor threshold	No data available
pH	Not applicable
Melting point/freezing point	No data available
Initial boiling point and boiling range	Not applicable
Flash point	>100 degrees C closed cup
Evaporation rate	Not applicable
Flammability (solid, gas)	Not classified as a flammability hazard
Upper/lower flammability limits	No data available
Upper/lower explosive limits	No data available
Vapor pressure	Not applicable
Vapor density	No data available
Relative density	1.007
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Use at elevated temperatures may form highly hazardous compounds.

Can react with strong oxidizing agents.

Acetic acid is formed upon contact with water or humid air.

When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released.

Adequate ventilation is required.

See OSHA formaldehyde standard, 29 CFR 1910.1048

Hazardous decomposition products will be formed at elevated temperatures.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Formaldehyde

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not classified based on available information.

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Ingredients:

Silicon dioxide:

Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Information taken from reference works and the literature.

Distillates (petroleum), hydrotreated middle:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.78 mg/l

Exposure time: 4 h

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Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Ingredients:
Silicon dioxide:
Result: No skin irritation
Remarks: Information taken from reference works and the literature.

Serious eye damage/irritation

Not classified based on available information.

Ingredients:
Silicon dioxide:
Result: No eye irritation
Remarks: Information taken from reference works and the literature.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

Ingredients:
Silicon dioxide:
Assessment: Does not cause skin sensitization.
Test Type: Skin: test type not specified
Species: Guinea pig
Remarks: No known sensitizing effect.
Information taken from reference works and the literature.

Germ cell mutagenicity

Not classified based on available information.

Ingredients:
Silicon dioxide:
Genotoxicity in vitro : Result: negative
Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo : Application Route: Ingestion
Result: negative
Remarks: Information taken from reference works and the literature.
Germ cell mutagenicity - Assessment
: Animal testing did not show any mutagenic effects.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen

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by OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Reproductive toxicity: Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

STOT-repeated exposure: Not classified based on available information.

Aspiration hazard

Aspiration toxicity: Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated middle:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13: Disposal considerations

Disposal of the product

Resource Conservation and Recovery Act (RCRA):

This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

Waste from residues : Dispose of in accordance with local regulations.

Disposal of contaminated packaging

Dispose of as unused product.

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Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No	Component RQ (lbs)	Calculated Product RQ (lbs)
Acetic Acid	64-19-7	5000	*
Acetic anhydride	108-24-7	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

No SARA Hazards

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313

US State Regulations

Pennsylvania Right To Know

Dimethyl siloxane, hydroxy-terminated 70131-67-8 70 - 90 %

Silicon dioxide 7631-86-9 5 - 10 %

Distillates (petroleum), hydrotreated middle 64742-46-7 5 - 10 %

Acetic acid 64-19-7 0 - 0.1 %

Acetic anhydride 108-24-7 0 - 0.1 %

New Jersey Right To Know

Dimethyl siloxane, hydroxy-terminated 70131-67-8 70 - 90 %

Silicon dioxide 7631-86-9 5 - 10 %

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Distillates (petroleum), hydrotreated middle 64742-46-7 5 - 10 %
Dimethyl siloxane, trimethylsiloxy-terminated 63148-62-9 1 - 5 %

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

15.2 Chemical Safety Assessment

The ingredients of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.
IECSC : All ingredients listed or exempt.
PICCS : All ingredients listed or exempt.
DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
REACH : All ingredients (pre-)registered or exempt.
TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

SECTION 16: Other information

NFPA: Flammability 1, Health 1, Instability 0

HMIS: Health 1, Flammability 1, Physical Hazard 0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Full text of other abbreviations

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-3 / TWA : 8-hour time weighted average

Sources of key data used to

compile the Material Safety

Data Sheet: Internal technical data, data from raw material SDSs, OECD

eChem Portal search results and European Chemicals Agency,

<http://echa.europa.eu/>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.