



Revision Date: 05/06/2004

Issue date: 01/11/2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Superflex® Clear RTV Silicone Adhesive Sealant
Product type: Silicone
Company address: Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 30562
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Filler Proprietary	5-10	6 mg/m ³ TWA	10 mg/m ³ TWA	3 mg/m ³ TWA respirable dust
Propane 74-98-6	1-5	1000 ppm TWA listed under aliphatic hydrocarbon gases alkane C1-C4	1000 ppm TWA 1800 mg/m ³ TWA	None
Isobutane 75-28-5	1-5	1000 ppm TWA listed under aliphatic hydrocarbon gases alkane C1-C4	None	None
Ethyltriacetoxysilane 17689-77-9	1-5	None	None	None
Methyltriacetoxysilane 4253-34-3	1-5	None	None	None

Exposure to moisture during cure will release 1-5% acetic acid.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Aerosol Paste
Color: Translucent
Odor: Acetic Acid

HEALTH: 2
FLAMMABILITY: 4
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

DANGER: EXTREMELY FLAMMABLE.
CONTENTS UNDER PRESSURE.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin contact, Eye contact, Inhalation

Potential Health Effects

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Inhalation: In a confined area, high concentrations of vapors may cause headache, nausea, and dizziness. Acetic acid produced during cure may irritate eyes, nose and throat. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit. Harmful by inhalation.

Skin contact: May cause skin irritation.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: Not expected to be harmful by ingestion.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If discomfort persists seek medical attention.

Skin contact: Wipe off paste with paper towel or cloth. Wash with soap and water.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion: Do not induce vomiting. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: (Base only) Greater than 93°C (200°F) Tagliabue closed cup

Flashback: This product exhibits flashback when tested for flame extension.

Flame Projection: Greater than 46 cms (18 inches)

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: 0.9 (value for propellant).

Flammable/Explosive limits-upper %: 10 (value for propellant).

Extinguishing media: Carbon dioxide (CO2). Dry chemical. Foam. Water spray.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water spray may be ineffective. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Unusual fire or explosion hazards: Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.

Hazardous combustion products: Acrid smoke and fumes. Formaldehyde. Irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Scrape up as much material as possible. Spilled material will solidify. Store in a closed container until ready for disposal. Maintain good ventilation for large spills.

7. HANDLING AND STORAGE

- Handling:** Avoid all ignition sources in storing and handling this material. Keep cool in accordance with label instructions. Wear protective equipment when handling. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not wear contact lenses.
- Storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
- Incompatible products:** Avoid contact with water. Acids. Oxidizing agents.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering controls:** Ensure adequate ventilation.
- Respiratory protection:** No personal respiratory protective equipment normally required. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
- Skin protection:** Chemical resistant, impermeable gloves.
- Eye/face protection:** Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:** Aerosol Paste
Color: Translucent
Odor: Acetic Acid
Vapor pressure: <10 mmHg @20°C (68° F)
pH: Not available
Boiling point/range: Not available
Melting point/range: Not available
Specific gravity: 1.01 at 20 deg. C Base only
Vapor density: Heavier than air
Evaporation rate: Slower than ether.
Solubility in water: Insoluble Polymerizes in presence of water
Partition coefficient (n-octanol/water): Not available
VOC content: 8%; 82 grams/liter (calculated)

10. STABILITY AND REACTIVITY

- Stability:** Stable.
- Hazardous polymerization:** Will not occur.
- Hazardous decomposition products:** Acetic acid is liberated slowly upon contact with moisture. Formaldehyde.
- Incompatibility:** Acids. Bases. Oxidizing agents. Water.
- Conditions to avoid:** Prolonged heating at temperatures above 150°C °C. Exposure to moisture.

11. TOXICOLOGICAL INFORMATION

- Product toxicity data:** No experimental toxicological data on the preparation as such is available. Data on the individual components of this mixture is available in the standard literature, or can be obtained by contacting the Health, Safety and Environment department at the address and phone number set forth in this MSDS.

Carcinogen Status

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Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Filler Proprietary	No	No	No
Propane 74-98-6	No	No	No
Isobutane 75-28-5	No	No	No
Ethyltriacetoxysilane 17689-77-9	No	No	No
Methyltriacetoxysilane 4253-34-3	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Filler Proprietary	Nuisance dust
Propane 74-98-6	Cardiac, Central nervous system, Irritant
Isobutane 75-28-5	Cardiac, Central nervous system, Lung
Ethyltriacetoxysilane 17689-77-9	No Target Organs
Methyltriacetoxysilane 4253-34-3	Allergen, Irritant

12. ECOLOGICAL INFORMATION

Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Dispose according to EPA and local governmental regulations. Cured rubber can be incinerated or landfilled following EPA and local regulations.

EPA hazardous waste number:

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Exceptions: May Qualify as Consumer Commodity ID8000

WaterTransportation (IMO/IMDG):

Item No. : 30562

Product name: Superflex® Clear RTV Silicone Adhesive Sealant

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None.

CERCLA/SARA Section 302 EHS: None.
CERCLA/SARA Section 311/312: None.
CERCLA/SARA 313: None.

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: A, B.5, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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