Material Safety Data Sheet

Revision Date: 12/04/2007 **Issue date:** 12/04/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Superflex(R) Black RTV Silicone Adhesive Sealant
Product type: Silicone
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 59391 / IDH No. 234602
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
Silicone Resin Proprietary	60-100	None	None	None
Distillates(petroleum), hydrotreated middle 64742-46-7	5-10	None	None	None
Silica, amorphous (fumed) 7631-86-9	5-10	6 mg/m^3 TWA	10 mg/m^3 TWA	3 mg/m^3 TWA respirable dust
Silicone Resin Proprietary	1-5	None	None	None
Ethyltriacetoxysilane 17689-77-9	1-5	None	None	None
Methyltriacetoxysilane 4253-34-3	1-5	None	None	None
Acetic acid 64-19-7	0.1-1	10 ppm TWA 15 ppm STEL	10 ppm TWA 25 mg/m³ TWA	None
Carbon black 1333-86-4	0.1-1	3.5 mg/m^3 TWA	3.5 mg/m³ TWA	None

Exposure to moisture during cure will release 1-5% acetic acid. The above components are hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: Black
Odor: Acetic Acid

HEALTH: 2*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: CONTACT WITH UNCURED SEALANT MAY CAUSE EYE AND SKIN IRRITATION
INHALATION OF VAPORS FROM UNCURED SEALANT MAY CAUSE RESPIRATORY TRACT IRRITATION
REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.

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

Potential Health Effects

Inhalation:	Acetic acid produced during cure may irrritate 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 limt.
Skin contact:	Prolonged or repeated contact with uncured sealant may cause skin irritation. May cause allergic skin reaction.
Eye contact:	Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion:	Not expected under normal conditions of use. 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. If skin irritation persists, call a physician.
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:	Greater than 93ºC (200ºF) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Acetic acid: 4%
Flammable/Explosive limits-upper %:	Acetic acid: 19.9%@ 200®F
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Formaldehyde. Silica Mist. Acrid smoke and fumes.

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 contact with eyes, skin and clothing. Do not get in eyes. Do not get on skin or clothing. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation.
Storage:	Store in a dry area below 90° F Keep container closed.
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, especially in confined areas.

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: Paste
Color: Black
Odor: Acetic Acid
Vapor pressure: <10 mmHg @20°C (68° F)
pH: Not applicable
Boiling point/range: Not available
Melting point/range: Not available
Specific gravity: 1.01 at 20 deg. C
Vapor density: Heavier than air
Evaporation rate: Not available
Solubility in water: Insoluble. Polymerizes in presence of water
Partition coefficient (n-octanol/water): Not available
VOC content: 3.08%; 32 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Acetic acid is liberated slowly upon contact with moisture. Formaldehyde.

Incompatability: Acids. Bases. Oxidizing agents. Water.

Conditions to avoid: Prolonged heating at temperatures above 150“C °C. Exposure to moisture.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Silicone Resin Proprietary	No	No	No
Distillates(petroleum), hydrotreated middle 64742-46-7	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No
Silicone Resin Proprietary	No	No	No
Ethyltriacetoxysilane 17689-77-9	No	No	No
Methyltriacetoxysilane 4253-34-3	No	No	No
Acetic acid 64-19-7	No	No	No
Carbon black 1333-86-4	No	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Silicone Resin Proprietary	No Target Organs
Distillates(petroleum), hydrotreated middle 64742-46-7	Irritant
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Silicone Resin Proprietary	Irritant
Ethyltriacetoxysilane 17689-77-9	No Target Organs
Methyltriacetoxysilane 4253-34-3	Allergen, Irritant
Acetic acid 64-19-7	Kidney, Irritant, Immune system, Gastrointestinal, Eyes, Corrosive, Allergen
Carbon black 1333-86-4	Respiratory, Some evidence of carcinogenicity

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

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

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None known

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 above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

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

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2,3,7,15

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