



Revision Number: 002.1

Issue date: 06/03/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 587 Blue RTV 190ml AE
Product type: Silicone sealant

IDH number: 743517
Item number: 40462
Region: United States

Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Contact information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Paste	HMIS:	
Color:	Blue	HEALTH:	*2
Odor:	Mild, Petroleum	FLAMMABILITY:	1
		PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8

WARNING: CONTENTS UNDER PRESSURE.
 PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
 PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY CAUSE BURNS TO SKIN AND EYES.
 REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: The silane is a skin and eye irritant and prolonged contact may cause eye and skin burns. The low concentration makes such overexposure unlikely and minimizes its affect on health and safety. 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.

Skin contact: Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction. Possible burns to skin.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation. Repeated or prolonged contact may cause burns.

Ingestion: Not expected under normal conditions of use. May be harmful if swallowed.

Existing conditions aggravated by exposure: Skin disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Limestone	1317-65-3	30 - 60
Siloxanes and Silicones, di-Me	63148-62-9	10 - 30
Norflurane	811-97-2	5 - 10
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	1 - 5
White mineral oil (petroleum)	8042-47-5	0.1 - 1
Butanone oxime	96-29-7	0.1 - 1
Quartz (SiO ₂)	14808-60-7	0 - 0.1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Wipe off paste with paper towel or cloth. Wash with soap and water.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	> 93 °C (> 199.4 °F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Carbon dioxide. Foam Dry chemical.
Special firefighting procedures:	Use water spray to keep fire exposed containers cool and disperse vapors.
Unusual fire or explosion hazards:	Contents under pressure. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Hazardous combustion products:	Formaldehyde. Silica fume.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Scrape up as much material as possible. Maintain good ventilation for large spills. Place scrap material in a well ventilated area and allow to cure to rubber.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation.
------------------	--

Storage:

For safe storage, store at or below 32 °C (89.6 °F)
Keep container closed.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Siloxanes and Silicones, di-Me	None	None	None	None
Norflurane	None	None	1,000 ppm (4,240 mg/m3) TWA	None
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	None	None	None	None
White mineral oil (petroleum)	5 mg/m3 TWA mist 10 mg/m3 STEL mist 5 mg/m3 TWA Mist. 10 mg/m3 STEL Mist.	5 mg/m3 TWA mist	None	None
Butanone oxime	None	None	10 ppm (36 mg/m3) TWA (Skin sensitizer)	None
Quartz (SiO ₂)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Chemical resistant, impermeable gloves. Impervious clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Blue
Odor:	Mild, Petroleum
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	< 5 mm hg (20 °C (68°F))
Boiling point/range:	Not available
Melting point/ range:	Not available
Specific gravity:	1.31 at 20 °C (68°F)
Vapor density:	Not available
Flash point:	> 93 °C (> 199.4 °F) Tagliabue closed cup
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	Not available
Solubility in water:	Polymerises in presence of water.
Partition coefficient (n-octanol/water):	Not available

VOC content: 3.9 %; 50.7 g/l

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Methyl ethyl ketoxime formed during cure. Oxides of carbon. Oxides of silicon. Formaldehyde

Incompatible materials: Polymerizes on contact with water. Acids and bases. Oxidizing agents.

Conditions to avoid: Moisture.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Siloxanes and Silicones, di-Me	No	No	No
Norflurane	No	No	No
Butan-2-one O,O',O''-(vinylsilyldyne)trioxime	No	No	No
White mineral oil (petroleum)	Known carcinogen.	Group 1	No
Butanone oxime	No	No	No
Quartz (SiO ₂)	Known carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
Limestone	Nuisance dust
Siloxanes and Silicones, di-Me	Irritant
Norflurane	Cardiac, Central nervous system, Irritant, Respiratory, Skin
Butan-2-one O,O',O''-(vinylsilyldyne)trioxime	Irritant, Allergen
White mineral oil (petroleum)	Irritant
Butanone oxime	Allergen, Blood, Central nervous system, Eyes, Irritant, Some evidence of carcinogenicity
Quartz (SiO ₂)	Immune system, Lung, 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, ground water, 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: Cured rubber can be incinerated or landfilled following EPA and local regulations.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name: Aerosols
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, non-flammable
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: 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 above reporting de minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA 313: None above reporting de minimus
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 Canadian Domestic Substances List.
WHMIS hazard class: A, D.2.A, 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.

Prepared by: Lou Fabrizio, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.