Material Safety Data Sheet

Revision Number: 002.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **593 RTV Black 190ml AE**
Product type: Not available

IDH number: 743519
Item number: 40464
Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

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

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Aerosol, Paste
Color: Black
Odor: Acetic acid

HEALTH: *1
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.
REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Eye contact, Lungs

Potential Health Effects

Inhalation: 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.

Skin contact: Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Siloxanes and Silicones, di-Me, hydroxy-terminated	70131-67-8	60 - 100
Silicon dioxide	7631-86-9	5 - 10
Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10
Norflurane	811-97-2	5 - 10
Siloxanes and Silicones, di-Me	63148-62-9	1 - 5
Methylsilanetriyl triacetate	4253-34-3	1 - 5
Triacetoxyethylsilane	17689-77-9	1 - 5
Acetic acid	64-19-7	0.1 - 1
Carbon black	1333-86-4	0.1 - 1

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

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

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: > 93 °C (> 199.4 °F) Tagliabue closed cup; This product exhibits no flashback when tested for flame extension.

Autoignition temperature: Not available

Flammable/Explosive limits - lower: 4 % (acetic acid)

Flammable/Explosive limits - upper: 19.9 % (acetic acid)

Extinguishing media: Carbon dioxide. Dry chemical. Foam. Water spray or fog.

Special firefighting procedures: Wear full protective clothing.

Unusual fire or explosion hazards: Cool aerosol containers with jet of water. Containers may explode.

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

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. Spilled material will solidify. Store in a closed container until ready for disposal. Maintain good ventilation for large spills.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and 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: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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
Siloxanes and Silicones, di-Me, hydroxy-terminated	None	None	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
Distillates (petroleum), hydrotreated middle	None	None	None	None
Norflurane	None	None	1,000 ppm (4,240 mg/m3) TWA	None
Siloxanes and Silicones, di-Me	None	None	None	None
Methylsilanetriyl triacetate	None	None	None	None
Triacetoxyethylsilane	None	None	None	None
Acetic acid	10 ppm TWA 15 ppm STEL	10 ppm (25 mg/m3) TWA	None	None
Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	None	None

Engineering controls: Ensure adequate ventilation, especially in confined areas. Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Aerosol, Paste
Color: Black
Odor: Acetic acid
Odor threshold: Not available
pH: Not available
Vapor pressure: < 10 mm hg (20 °C (68°F))
Boiling point/range: Not available
Melting point/ range: Not available
Specific gravity: 1.01 at 20 °C (68°F) Base only
Vapor density: Heavier than air.
Flash point: > 93 °C (> 199.4 °F) Tagliabue closed cup; This product exhibits no flashback when tested for flame extension.
Flammable/Explosive limits - lower: 4 % (acetic acid)
Flammable/Explosive limits - upper: 19.9 % (acetic acid)
Autoignition temperature: Not available
Evaporation rate: Slower than ether.
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available
VOC content: < 4 %; < 40 g/l

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Acetic acid is liberated slowly upon contact with moisture. Formaldehyde. Oxides of carbon. Oxides of silicon.

Incompatible materials: Acids. Bases. Oxidizing agents. Water.

Conditions to avoid: Prolonged heating at temperatures above 150 °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 Regulatory Affairs department at the address and phone number listed on this MSDS.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Siloxanes and Silicones, di-Me, hydroxy-terminated	No	No	No
Silicon dioxide	No	No	No
Distillates (petroleum), hydrotreated middle	No	No	No
Norflurane	No	No	No
Siloxanes and Silicones, di-Me	No	No	No
Methylsilanetriyl triacetate	No	No	No
Triacetoxyethylsilane	No	No	No
Acetic acid	No	No	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Siloxanes and Silicones, di-Me, hydroxy-terminated	No Target Organs
Silicon dioxide	Nuisance dust
Distillates (petroleum), hydrotreated middle	Irritant
Norflurane	Cardiac, Central nervous system, Irritant, Respiratory, Skin
Siloxanes and Silicones, di-Me	Irritant
Methylsilanetriyl triacetate	Irritant, Allergen
Triacetoxyethylsilane	No Target Organs
Acetic acid	Allergen, Corrosive, Eyes, Gastrointestinal, Immune system, Irritant, Kidney
Carbon black	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, 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. Otherwise dispose of in accordance with local and national regulations.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this sections 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
Hazard class or division:	2.2
Identification number:	UN 1950
Packing group:	None
Exceptions:	Consumer Commodity ORM-D, ID8000, Aerosols, not more than 1 L -

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/NDSL 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

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