



Revision Number: 003.0

Issue date: 01/22/2025

1. IDENTIFICATION

| | | | |
|--------------------------------------|---|---------------------|--------|
| Product name: | LOCTITE SI 593 BK AE known as 593 RTV Black 190ml AE | IDH number: | 743519 |
| Product type/Recommended use: | Silicone | Item number: | 40464 |
| Restriction of Use: | None identified | Region: | Canada |
| Company address: | Contact information: | | |
| Henkel Canada Corporation | Telephone: +1 (905) 814-6511 | | |
| Meadowpine Boulevard 2515 | MEDICAL EMERGENCY Phone: Poison Control Center | | |
| Mississauga, Ontario L5N 6C3 | 1-877-671-4608 (toll free) or 1-303-592-1711 | | |
| | TRANSPORT EMERGENCY Phone: CHEMTREC | | |
| | 1-800-424-9300 (toll free) or 1-703-527-3887 | | |
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| | 1-800-424-9300 (toll free) or 1-703-527-3887 | | |
| | Internet: www.henkelna.com | | |

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: OUTER CONTAINER IS PRESSURIZED WITH AN EXTREMELY FLAMMABLE GAS.
 H229 - PRESSURIZED CONTAINER: MAY BURST IF HEATED.
 H315 - CAUSES SKIN IRRITATION.
 H319 - CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASS | HAZARD CATEGORY |
|-----------------|-----------------|
| AEROSOL | 3 |
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |

PICTOGRAM(S)



Precautionary Statements

| | |
|--------------------|---|
| Prevention: | P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking. P251 - Do not pierce or burn, even after use. P264 - Wash affected area thoroughly after handling. |
| Response: | P280 - Wear protective gloves, eye protection, and face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical attention. P337+P313 - If eye irritation persists: Get medical attention. P362+P364 - Take off contaminated clothing and wash it before reuse. |

IDH number: 743519

Product name: LOCTITE SI 593 BK AE known as 593 RTV Black 190ml AE

Storage: P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal: Not prescribed

Other hazards Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number | Weight %* |
|--------------------------------------|------------|-----------|
| Dimethyl siloxane, hydroxyterminated | 70131-67-8 | 5 - 10 |
| 1,1-Difluoroethane | 75-37-6 | 1 - 5 |
| Carbon black - Nano | 1333-86-4 | 1 - 5 |

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

Non hazardous components

Actual concentration or concentration range is withheld as a trade secret

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

| | |
|--|---|
| Inhalation: | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention. |
| Skin contact: | Wash with soap and water. Wash clothing before reuse. If symptoms develop and persist, get medical attention. |
| 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. Get medical attention. |
| Most important symptoms and effects (acute and delayed): | The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information. |
| Indication of any immediate medical attention / special treatment needed: | Not available. |

5. FIRE FIGHTING MEASURES

| | |
|---|--|
| Extinguishing media: | Foam, dry chemical or carbon dioxide. |
| Improper extinguishing agents: | Not available. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Prevent inhalation of fumes and gases. 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: | Contents under pressure. Do not puncture or incinerate pressurized containers. Closed containers may explode when exposed to extreme heat. |

Hazardous combustion products: Oxides of carbon. Oxides of silicon. 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: Wear appropriate personal protective equipment. Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not puncture or incinerate pressurized containers. Refer to Section 8.

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, please review labels on container or check the Technical Data Sheet.

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 Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|------------------------|---|--|--|--|
| Silicon dioxide | 6 mg/m ³ TWA 3 mg/m ³ TWA Respirable particles. 10 mg/m ³ TWA Inhalable particles. | 15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 mg/m ³ TWA Total dust. 5 mg/m ³ TWA Respirable fraction. 20 MPPCF TWA 0.8 mg/m ³ TWA | None | 3 mg/m ³ TWA Respirable fraction. |
| 1,1-Difluoroethane | None | None | 1,000 ppm (2,700 mg/m ³) TWA | None |
| Carbon black - Nano | 3 mg/m ³ TWA Inhalable fraction. | 3.5 mg/m ³ PEL 5 mg/m ³ TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m ³ 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. Safety showers and eye wash stations should be available.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------|
| Physical state: | Aerosol |
| Color: | Black |
| Odor: | Acetic acid |
| Odor threshold: | Not available. |
| pH: | Not available. |
| Vapor pressure: | Not available. |
| Boiling point/range: | Not available. |
| Melting point/ range: | Not available. |
| Density/Relative density: | 1.03 |
| Relative vapor density: | Not available. |
| Flash point: | < -50 °C (< -58°F) |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not available. |
| Flammability: | Not applicable |
| Evaporation rate: | Not available. |
| Solubility: | Not available. |
| Partition coefficient n-octanol/water (logarithmic value): | Not available. |
| VOC content: | 3.90 % |
| Dynamic viscosity: | Not available. |
| Kinematic viscosity: | Not available. |
| Particle characteristics: | Not available. |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable under normal conditions of storage and use. |
| Hazardous reactions: | None under normal processing. |
| Hazardous decomposition products: | Oxides of carbon. Oxides of silicon. Formaldehyde. Irritating organic vapours. |
| Incompatible materials: | Acids and bases. Oxidizing agents. Water. |
| Reactivity: | Not available. |
| Conditions to avoid: | Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F). Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. |

11. TOXICOLOGICAL INFORMATION

| | |
|-----------------------------------|-----------------------------------|
| Likely routes of exposure: | Skin, Inhalation, Eyes, Ingestion |
|-----------------------------------|-----------------------------------|

Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system. 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: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s) | LD50s and LC50s |
|--------------------------------------|---|
| Dimethyl siloxane, hydroxyterminated | None |
| 1,1-Difluoroethane | Inhalation LC50 (Rat, 4 h) = > 437500 ppm |
| Carbon black - Nano | Oral LD50 (Rat) = > 8,000 mg/kg |

| Hazardous Component(s) | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects |
|--------------------------------------|--------------------------|------------------------|---|
| Dimethyl siloxane, hydroxyterminated | | | |
| 1,1-Difluoroethane | Irritant | | Cardiac Central nervous system Developmental Respiratory |
| Carbon black - Nano | | | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--------------------------------------|-------------------------------|-----------------|--|
| Dimethyl siloxane, hydroxyterminated | No | No | No |
| 1,1-Difluoroethane | No | No | No |
| Carbon black - Nano | Known To Be Human Carcinogen. | Group 2B | No |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: ID8000, (Not more than 500 ml), May Qualify as Consumer Commodity

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: Limited quantity (Not more than 1 L).

15. REGULATORY INFORMATION**Canada Regulatory Information**

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,8,11

Prepared by: Product Safety and Regulatory Affairs

Issue date: 01/22/2025

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