Material Safety Data Sheet





Revision Number: 007.1 Issue date: 06/07/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 598 Black High Performance IDH number: 234609

RTV Silicone Gasket Maker

Product type: Silicone Item number: 59830
Region: United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way

Rocky Hill, Connecticut 06067

Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:pasteHEALTH:*2Color:blackFLAMMABILITY:1Odor:MildPHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8
WARNING: 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, Inhalation, Eyes

Potential Health Effects

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

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

Existing conditions aggravated by

exposure:

IDH number: 234609

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	%
Silicone Resin	Proprietary	30 - 60
Reinforcing Filler	Proprietary	30 - 60
Silicone Resin	Proprietary	10 - 30
Filler	Proprietary	5 - 10
Oximino silane	Proprietary	1 - 5
Carbon black	1333-86-4	0.1 - 1

Exposure to moisture during cure will release 0.1 - 0.9% methanol. Methyl ethyl ketoxime (MEKO) is formed during cure. This product will release up to 5% MEKO.

4. FIRST AID MEASURES

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

Skin contact: Wipe off paste with paper towel or cloth. Wash with soap and water. 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. If eye irritation persists, consult a specialist.

Ingestion: Do not induce vomiting. If symptoms develop and persist, get medical

attention.

5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F) Tagliabue closed cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not applicable

Flammable/Explosive limits - upper:

Not applicable

Extinguishing media: Carbon dioxide. foam Dry chemical.

Special firefighting procedures:Wear self contained breathing apparatus.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of silicon. Oxides of carbon. Formaldehyde.

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. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Do not wear contact lenses.

Storage:

IDH number: 234609

Store in a dry area below 90° F. Keep container closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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
Silicone Resin	None	None	None	None
Reinforcing Filler	10 mg/m3 TWA Total dust.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Silicone Resin	None	None	None	None
Filler	None	None	None	None
Oximino silane	None	None	None	None
Carbon black	3.5 mg/m3 TWA 3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 TWA	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.

Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Butyl rubber gloves. Natural rubber gloves. Nitrile gloves. Impervious clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: paste
Color: black
Odor: Mild
Odor threshold: Not av

Odor threshold: Not available pH: Not applicable

Vapor pressure: < 5 mm hg (20 °C (68°F))

Boiling point/range:

Melting point/ range:

Specific gravity:

Vapor density:

Not applicable

Not available

1.3 at 20 °C (68°F)

Heavier than air.

Flash point: > 93 °C (> 199.4 °F) Tagliabue closed cup

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Evaporation rate:

Not applicable
Not available
Not available

Solubility in water: Polymerises in presence of water.

Partition coefficient (n-octanol/water): Not available VOC content: 3.31 %; 40.69 g/l

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

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

formed during cure.

Incompatible materials: Polymerizes on contact with water.

Conditions to avoid: Moisture.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silicone Resin	No	No	No
Reinforcing Filler	No	No	No
Silicone Resin	No	No	No
Filler	No	No	No
Oximino silane	No	No	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs	
Silicone Resin	No Target Organs	
Reinforcing Filler	Nuisance dust	
Silicone Resin	Irritant	
Filler	No Target Organs	
Oximino silane	Irritant, Allergen	
Carbon black	Respiratory, Some evidence of carcinogenicity	

12. ECOLOGICAL INFORMATION

Ecological information:

IDH number: 234609

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:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:None

Product name: Loctite(R) 598 Black High Performance RTV Silicone Gasket Maker Page 4 of 5

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated

Hazard class or division:
Identification number:
Packing group:
None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated

Hazard class or division:
Identification number:
Packing group:
None
Exceptions:
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:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

None above reporting de minimus
Immediate Health, Delayed Health
None above reporting de minimus

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

Canada Regulatory Information

IDH number: 234609

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-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: 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.