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PRODUCT NAME: Loctite 598 Black High Performance RTV Silicone Gasket Maker
MSDS REVISION DATE: 06/17/2008
ISSUED: 06/17/2008
PHONE INFO: (860) 571-5100
EMERGENCY PHONE: (860) 571-5100
Web Site: www.henkelna.com
Region: United States
ADDRESS: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067
Product Information: Silicone
Item number: 59830 / IDH No. 234609
TRADE NAME: Loctite(R) 598 Black High Performance RTV Silicone Gasket Maker

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS#	Ingredient Percent
Silicone Resin	Proprietary	30-60 by Weight
Reinforcing Filler	Proprietary	30-60 by Weight
Silicone Resin	Proprietary	10-30 by Weight
Filler	Proprietary	5-10 by Weight
Oximino silane	Proprietary	1-5 by Weight
Carbon black	1333-86-4	0.1-1 by Weight

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

SECTION 3 - HAZARDS IDENTIFICATION

Hazards Comments: See Section 11 for additional toxicological information.
AGGRAVATION OF CONDITIONS: Skin disorders.
INGESTION: Not expected under normal conditions of use. May be harmful if swallowed.
EYE CONTACT: Vapors may irritate eyes. Contact with eyes will cause irritation.
SKIN CONTACT: Prolonged or repeated contact with uncured sealant may cause skin irritation. Repeated or prolonged skin contact may result in allergic sensitization.
INHALATION: Vapors and mists will irritate the respiratory tract and nasal passages. When heated to temperatures exceeding 300 deg F (150 deg 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.
PHYSICAL STATE: Paste
COLOR: Black
ODOR: Mild
EMERGENCY OVERVIEW: 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.
ROUTES OF ENTRY: Skin, Inhalation, Eyes

SECTION 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. Get medical attention if symptoms develop and persist.
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. Get medical attention if symptoms develop and persist.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: Greater than 93 deg C (200 deg F) Tagliabue closed cup
AUTOIGNITION TEMPERATURE: Not available
FLAMMABLE LIMITS - LEL: Not applicable
FLAMMABLE LIMITS - UEL: Not applicable
EXTINGUISHING MEDIA: Carbon dioxide (CO2). Foam. Dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus
UNUSUAL FIRE AND EXPLOSION HAZARDS: None
HAZARDOUS COMBUSTION PRODUCTS: Oxides of silicon. Oxides of carbon. Formaldehyde.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL DATA:	Do not flush into surface water or sanitary sewer system.
SPILL CLEAN UP MEASURES:	Scrape up as much material as possible. Maintain good ventilation for large spills. Store in a partly filled, closed container until disposal.

SECTION 7 - HANDLING and STORAGE

HANDLING:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Do not wear contact lenses.
STORAGE:	Store in a dry area below 90 deg F Keep container closed.
Incompatible products:	Never allow product to get in contact with water during storage.
Handling Notes:	For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

ENGINEERING CONTROLS:	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
RESPIRATORY PROTECTION:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.
SKIN PROTECTION:	Impervious clothing Nitrile gloves. Natural rubber gloves. Butyl rubber gloves.
EYE PROTECTION:	Safety goggles or safety glasses with side shields.
Ingredient Guideline Notes:	See Section 8 for Exposure Limits.
Ingredient:	Silicone Resin
ACGIH TLV - TWA:	None
OSHA PEL (TWA):	None
OTHER:	None
Ingredient:	Reinforcing Filler
ACGIH TLV - TWA:	10 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica)
OSHA PEL (TWA):	15 mg/m ³ TWA total 5 mg/m ³ TWA
OTHER:	None
Ingredient:	Silicone Resin
ACGIH TLV - TWA:	None
OSHA PEL (TWA):	None
OTHER:	None
Ingredient:	Filler
ACGIH TLV - TWA:	None
OSHA PEL (TWA):	None
OTHER:	None
Ingredient:	Oximino silane
ACGIH TLV - TWA:	None
OSHA PEL (TWA):	None
OTHER:	None
Ingredient:	Carbon black
ACGIH TLV - TWA:	3.5 mg/m ³ TWA
OSHA PEL (TWA):	3.5 mg/m ³ TWA
OTHER:	None

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	Paste
COLOR:	Black
ODOR:	Mild
VAPOR PRESSURE:	<5 mmHg @20 deg C (68 deg F)
pH:	Not applicable
BOILING POINT:	Not applicable
MELTING POINT:	Not available
SPECIFIC GRAVITY:	1.3 at 20 deg. C
VAPOR DENSITY:	Heavier than air
EVAPORATION RATE:	Not available
SOLUBILITY IN WATER:	Polymerizes in presence of water
Kow - Oct/Water partition coef:	Not available
VOLATILE ORGANIC COMPOUNDS:	3.31%; 40.69 grams/liter

SECTION 10 - STABILITY and REACTIVITY

STABILITY:	Stable.
HAZARDOUS POLYMERIZATION:	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.

SECTION 11 - TOXICOLOGICAL INFORMATION

Chemical Name:	Silicone Resin
CAS Number:	Proprietary
NTP:	No
IARC:	No
OSHA:	No
Chemical Name:	Reinforcing Filler
CAS Number:	Proprietary
NTP:	No
IARC:	No

OSHA:	No
Chemical Name:	Silicone Resin
CAS Number:	Proprietary
NTP:	No
IARC:	No
OSHA:	No
Chemical Name:	Filler
CAS Number:	Proprietary
NTP:	No
IARC:	No
OSHA:	No
Chemical Name:	Oximino silane
CAS Number:	Proprietary
NTP:	No
IARC:	No
OSHA:	No
Chemical Name:	Carbon black
CAS Number:	1333-86-4
NTP:	No
IARC:	Group 2B
OSHA:	Yes
Chemical Name:	Silicone Resin
CAS Number:	Proprietary
Health Effects/Target Organs:	No Target Organs
Chemical Name:	Reinforcing Filler
CAS Number:	Proprietary
Health Effects/Target Organs:	Nuisance dust
Chemical Name:	Silicone Resin
CAS Number:	Proprietary
Health Effects/Target Organs:	Irritant
Chemical Name:	Filler
CAS Number:	Proprietary
Health Effects/Target Organs:	No Target Organs
Chemical Name:	Oximino silane
CAS Number:	Proprietary
Health Effects/Target Organs:	Allergen, Irritant
Chemical Name:	Carbon black
CAS Number:	1333-86-4
Health Effects/Target Organs:	Respiratory, Some evidence of carcinogenicity

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL 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.
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SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	Cured rubber can be incinerated or landfilled following EPA and local regulations.
EPA Hazardous Waste Number (RCRA):	Not a RCRA hazardous waste.
Disposal Notes:	Information provided is for unused product only.

SECTION 14 - TRANSPORT INFORMATION

DOT Proper shipping name:	Unrestricted
DOT Hazard class:	None
DOT Identification number:	None
DOT Packing group:	None
IATA Proper shipping name:	Unrestricted
IATA Class:	None
IATA UN Number:	None
IATA Packing group:	None
IMDG Proper shipping name:	Unrestricted
IMDG Class:	None
IMDG UN Number:	None
IMDG Packing group:	None
IMDG Exceptions:	None
Marine pollutant:	None

SECTION 15 - REGULATORY INFORMATION

TSCA INVENTORY STATUS:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA EXPORT NOTIFICATION:	None.
SECTION 302 EHS:	None above reporting de minimus.
311/312 Hazard Categories:	Immediate Health Hazard, Delayed Health Hazard
SECTION 313:	None above reporting de minimus.
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

DSL/NDL: 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: D.2.A, D.2.B

SECTION 16 - ADDITIONAL INFORMATION

HMIS - REACTIVITY: 0

HMIS - PERSONAL PROTECTION: See Section 8

HMIS - HEALTH: 2*

HMIS - FLAMMABILITY: 1

COMMENTS: This material safety data sheet contains changes from the previous version in sections: 2,3,8,15

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