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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 587 Blue High Performance High Performance RTV Silicone Gasket Maker
Product type: Silicone Sealant
Company address: Henkel Corporation, 1001 Trout Brook Crossing, Rocky Hill, Connecticut 06067
Item No.: 30567 / IDH No. 303247
Region: United States
Contact Information: Telephone: 860.571.5100, Emergency telephone: 860.571.5100, Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: Hazardous components, %, ACGIH TLV, OSHA PEL, OTHER. Rows include Silicone Resin Proprietary, Reinforcing Filler Proprietary, Silicone Resin Proprietary, Filler Proprietary, Oximino silane Proprietary, Liquified petroleum propellant 68476-86-8, and Methyl ethyl ketoxime 96-29-7.

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.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
HMIS: HEALTH: 2*, FLAMMABILITY: 4, PHYSICAL HAZARD: 0, Personal Protection: See Section 8
DANGER: EXTREMELY FLAMMABLE. CONTENTS UNDER PRESSURE. PROLONGED OR REPEATED CONTACT WITH UNCURED ADHESIVE MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.

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

Potential Health Effects

Item No.: 30567 / IDH No. 303247

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Inhalation: Vapors and mists will irritate the respiratory tract and nasal passages. 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: May cause skin irritation with discomfort or rash. May cause allergic skin reaction.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: Moderately toxic by ingestion. Not expected under normal conditions of use.

Existing conditions aggravated by exposure: Skin disorders.

See Section 11 for additional toxicological information.

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.

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. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: (Base only) Greater than 93°C (200°F) Tagliabue closed cup

Flashback: This product exhibits flashback when tested for flame extension.

Flame Projection: Greater than 46 cms (18 inches)

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: 0.9 (value for propellant).

Flammable/Explosive limits-upper %: 10 (value for propellant).

Extinguishing media: Carbon dioxide (CO2). Dry chemical. Foam. Water spray.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water spray may be ineffective. 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: Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of silicon. Formaldehyde. Acrid smoke and fumes.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Do not flush into surface water or sanitary sewer system.

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:	Avoid contact with eyes, skin and clothing. Avoid breathing 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:	Keep container closed. Store at or below 32°C (90°F).
Incompatible products:	Never allow product to get in contact with water during storage.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.
Skin protection:	Chemical resistant, impermeable gloves. Impervious clothing
Eye/face protection:	Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Physical state: Paste
Color:	Blue
Odor:	Mild petroleum
Vapor pressure:	<5 mmHg @20°C (68° F)
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.31 at 20 deg. C
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Polymerizes in presence of water
Partition coefficient (n-octanol/water):	Not available
VOC content:	3.9%; 50.7 grams/liter

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.
Incompatibility:	Acids and bases. Oxidizing agents. Polymerizes on contact with water.
Conditions to avoid:	Moisture.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Silicone Resin Proprietary	No	No	No
Reinforcing Filler Proprietary	No	No	No
Silicone Resin Proprietary	No	No	No
Filler Proprietary	No	No	No
Oximino silane Proprietary	No	No	No
Liquified petroleum propellant 68476-86-8	No	No	No
Methyl ethyl ketoxime 96-29-7	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Silicone Resin Proprietary	No Target Organs
Reinforcing Filler Proprietary	Nuisance dust
Silicone Resin Proprietary	Irritant
Filler Proprietary	No Target Organs
Oximino silane Proprietary	Allergen, Irritant
Liquified petroleum propellant 68476-86-8	No data
Methyl ethyl ketoxime 96-29-7	Allergen, Blood, Central nervous system, Eyes, Irritant, 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, 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.

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.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section 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, flammable

Item No. : 30567 / IDH No. 303247

Product name: Loctite(R) 587 Blue High Performance High Performance RTV Silicone Gasket Maker

Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: Aerosols, not more than 1 L - Consumer Commodity ORM-D
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Exceptions: May Qualify as Consumer Commodity ID8000

WaterTransportation (IMO/IMDG):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Exceptions: None
Marine pollutant: 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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Pressure
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: Contains one or more components listed on the Non-Domestic Substances list.
WHMIS hazard class: A, B.5, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2,3,5,7,10,14,15

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