



Revision Number: 008.2

Issue date: 04/14/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 5900 Flange Sealant
 Product use: Silicone rubber sealant

IDH number: 212184
 Item number: 20166
 Region: Canada

Company address:
 Henkel Canada Corporation
 2225 Meadowpine Boulevard
 Mississauga, Ontario L5N 7P2

Contact information:
 Telephone: 905.814.6511
 Emergency telephone: 905.814.6511
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Paste
 Color: Black
 Odor: Mild
 WHMIS hazard class: D.2.A, D.2.B

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 from uncured sealant may cause respiratory tract irritation. 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: 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: Not expected under normal conditions of use. May be harmful if swallowed.

Existing conditions aggravated by exposure: Skin disorders.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Calcium carbonate	471-34-1	30 - 60
Silicone Resin	Proprietary	30 - 60
Silicone Resin	Proprietary	10 - 30
Oximino silane	Proprietary	1 - 5
Organic Acid	Proprietary	1 - 5
Filler	Proprietary	1 - 5
Butanone oxime	96-29-7	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.
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. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	> 93 °C (> 199.4 °F) Tagliabue closed cup
Autoignition temperature:	Not available
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 carbon. Oxides of silicon. Formaldehyde.
Sensitivity to Mechanical Impact:	Not available
Sensitivity to static discharge:	Not available

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.
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Storage:

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

For information on product shelf life contact Henkel Canada Customer Service at (905) 814-6511.

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
Calcium carbonate	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
Silicone Resin	None	None	None	None
Oximino silane	None	None	None	None
Organic Acid	10 mg/m3 TWA	None	None	None
Filler	None	None	None	None
Butanone oxime	None	None	10 ppm (36 mg/m3) TWA (Skin sensitizer)	None
Carbon black	3.5 mg/m3 TWA	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 dust mask for particulate concentrations exceeding the Occupational Exposure Limit. Use an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Permeation resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Black
Odor:	Mild
Odor threshold:	Not available
pH:	8
Vapor pressure:	< 5 mm hg (20 °C (68°F))
Boiling point/range:	Not applicable
Melting point/ range:	Not available
Specific gravity:	1.31 at 20 °C (68°F)
Vapor density:	Heavier than air.
Flash point:	> 93 °C (> 199.4 °F) Tagliabue closed cup
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not available
Evaporation rate:	Not available
Solubility in water:	Polymerises in presence of water.
Partition coefficient (n-octanol/water):	Not available
VOC content:	3.31 %; 44.47 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Methyl ethyl ketoxime formed during cure. Oxides of carbon. Oxides of silicon. Formaldehyde.
Incompatible materials:	Polymerizes on contact with water.
Conditions to avoid:	Moisture.

11. TOXICOLOGICAL INFORMATION

Toxicologically synergistic products: Not available

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
Calcium carbonate	No	No	No	No
Silicone Resin	No	No	No	No
Silicone Resin	No	No	No	No
Oximino silane	No	No	No	No
Organic Acid	No	No	No	Group A4
Filler	No	No	No	No
Butanone oxime	No	No	No	No
Carbon black	No	Group 2B	No	Group A4

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Calcium carbonate	Oral LD50 (RAT) = 6,450 mg/kg	Nuisance dust
Silicone Resin	None	No Target Organs
Silicone Resin	None	Irritant
Oximino silane	None	Irritant, Allergen
Organic Acid	Oral LD50 (RAT) = 4,600 mg/kg	Irritant
Filler	None	No Target Organs
Butanone oxime	None	Allergen, Blood, Central nervous system, Eyes, Irritant, Some evidence of carcinogenicity
Carbon black	None	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.

14. TRANSPORT INFORMATION

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None
Exceptions: None

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 or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New information added in Section(s): 8

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

Prepared by: Lou Fabrizio, Regulatory Affairs Specialist

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