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# MATERIAL SAFETY DATA SHEET

## COSHH REGULATION

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### SECTION 01 – IDENTIFICATION OF SUBSTANCE:

Chemical Name: **SELF SEAL<sup>®</sup> SL-100 / GG-200 FIRESTOP SEALANTS**

Manufacturer: **NUCO INC.**  
150 Curtis Drive  
Guelph, Ontario N1K 1N5  
Tel: 001-519-823-4994  
Fax: 001-519-823-1099

Date: February 28, 2006

Prepared by: Technical Services Department

Product Use: Silicone Sealants for Firestopping

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### SECTION 02 – COMPOSITION / DATA ON COMPONENTS:

Chemical Characterization : Hydroxy and trimethylsiloxy terminated polydimethylsiloxanes containing fill materials, pigments and cross-linking agent.

<u>Dangerous Components</u>	<u>EINECS No.</u>	<u>%</u>	<u>Risk Phrases</u>
Methyl Tri(methylethylketoxime)silane	245-366-4	2.0 - 5.0	R 21
Methyl Ethyl Ketoxime	202-496-6	1.0 – 2.0	R 21-40-41-43

Additional Information: Section 15 provides wording for the listed risk phrases

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### SECTION 03 – HAZARDS IDENTIFICATION:

#### ROUTES OF ENTRY INTO THE BODY (ACUTE EFFECTS):

Eyes: Direct contact will cause irritation.

Skin: May cause moderate irritation. Repeated skin contact may cause allergic skin reaction.

Inhalation: Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness and prolonged overexposure may injure blood and liver.

Ingestion: Low ingestion hazard in normal use. Repeated ingestion may injure internally.

#### HAZARD DESIGNATION:



Xn HARMFUL

R 40 – Limited evidence of a carcinogenic effect  
R 43 - May cause sensitization by skin contact

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### SECTION 04 - FIRST AID MEASURES:

Eyes: Flush with copious quantities of lukewarm water. Do not attempt to physically remove the solids or gums from the eye. Seek medical attention immediately.

Skin: Remove contaminated clothing. Wash thoroughly with warm water and non-abrasive soap. Seek medical attention if you feel ill or a reaction develops.

Inhalation: Remove to fresh air and provide water. Seek medical attention if you feel ill or a reaction develops.

Ingestion: Get medical attention.

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**SECTION 05 - FIRE FIGHTING MEASURES:**

**Extinguishing Media:** Carbon dioxide, dry chemical, water fog or foam. Water can be used to cool fire exposed containers

**Fire Fighting Measures:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.

**Hazardous Decomposition Products:** Carbon dioxide, silicone dioxide, calcium oxide, nitrogen oxides, formaldehyde, and traces of incompletely burned carbon products.

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**SECTION 06 – ACCIDENTAL RELEASE MEASURES:**

**Containment / Clean Up:** Restrict access to the area of the spill. Provide ventilation and protective clothing. Scrape up sealant and place in container for disposal. Clean area as appropriate since silicone materials can represent a slip hazard. Cleaning may require steam or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup.

**Measures for Environmental Protection:** Do not allow product to reach sewage system or water bodies.

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**SECTION 07 – HANDLING AND STORAGE:****HANDLING:**

**Safe Handling:** No special measures required.

**Protection against Explosions and Fires:** No special measures required.

**STORAGE:**

**Storerooms and Containers:** Store in an adequately ventilated area under dry conditions between 50°F (10°C) to 77°F (25°C) and keep container tightly sealed when not in use.

**Storage in One Common Storage Facility:** Not required.

**Storage Class:** Not applicable

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**SECTION 08 – EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

**Component Exposure Limits:** Methyl Tri(methylethylketoxime)silane (EINECS# 245-366-4) forms Methyl Ethyl Ketoxime (EINECS# 202-496-6) upon contact with atmospheric moisture. Provide adequate ventilation to control exposures within the following exposure guidelines: Vendor Guide TWA: 3 ppm, STEL: 10 ppm.

**Respiratory Protection:** Not necessary if room is well ventilated.

**Ventilation:** In indoor applications, passive ventilation (opening of doors and windows) is recommended. Local exhaust as necessary to keep exposure levels within guidelines.

**Personal Protective Equipment:** Safety glasses with side-protection, impermeable gloves (e.g., neoprene, nitrile, silver shield®), coveralls or apron are important in preventing contamination of eyes, skin and clothing. Wash thoroughly after handling.

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**SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical State:** Viscous liquid / Paste

**Odor and Appearance:** Low odor, smooth self-levelling sealant / thixotropic sealant

**Odor Threshold:** Not available

**Specific Gravity:** 1.31 – 1.33

**Vapor Pressure:** Less than 5 mm Hg

**Flash Point:** Not applicable

**Autoignition Point:** Product is not self-igniting

**Danger of Explosion:** Product is not explosive

**Solubility / Miscibility in Water:** Not miscible

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**SECTION 10 – STABILITY AND REACTIVITY:**

**Chemical Stability:** Stable

**Incompatible Materials:** Strong oxidizing agents or electrophiles (e.g. ferric chloride). Concentrated acids or bases can degrade the silicone polymer.

**Reactive Conditions:** Moisture and incompatible materials.

**Hazardous Polymerization:** Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION:**

**Effects of over-exposure:** The curing vapor, Methyl Ethyl Ketoxime (EINECS# 202-496-6), may cause drowsiness, injure blood, liver and may irritate or harm nose, throat, lungs and eyes. Direct contact with eyes will irritate. Direct contact with skin may irritate.

**Sensitization:** Allergic skin sensitization possible through repeated direct contact with the ketoxime in the uncured sealant.

**Carcinogenicity:** No ingredients considered by IARC, NTP or OSHA to be carcinogens. Male rodents exposed to Methyl Ethyl Ketoxime (EINECS# 202-496-6) vapor throughout their lifetime developed liver carcinomas. These carcinomas were statistically increased at a concentration of 375 ppm.

**Reproductive Toxicity:** Methyl Ethyl Ketoxime (EINECS# 202-496-6) is not considered a reproductive or developmental toxin based on studies on rats.

**Mutagenicity:** Methyl Ethyl Ketoxime (EINECS# 202-496-6) is not considered mutagenic or genotoxic based on in vivo and in vitro studies.

**Synergistic Products:** Not known

**SECTION 12 – ECOLOGICAL INFORMATION:**

**General:** Do not allow product undiluted or large quantities of uncured product to reach ground water, water bodies or sewage system.

**SECTION 13 – DISPOSAL CONSIDERATIONS:**

**Waste Disposal:** Dispose in accordance with local regulations.  
**European Waste Catalogue:**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	WASTES FROM MFSU OF ADHESIVES AND SEALANTS (INCLUDING WATERPROOFING PRODUCTS)
08 04 09	WASTE ADHESIVES AND SEALANTS CONTAINING ORGANIC SOLVENTS OR OTHER DANGEROUS SUBSTANCES

**SECTION 14 - TRANSPORT INFORMATION:**

**Shipping Information:** Not subject to IMDG Code or IATA Regulations.

**SECTION 15 - REGULATORY INFORMATION:**

**Designation according to EC Guidelines:** The product has been classified in accordance with EC Directives / Ordinance on Hazardous Materials. Observe the normal safety regulations when handling chemicals.

**EINECS:** All ingredients listed or exempt.  
**Code Letter and Hazard Designation:**



Xn Harmful

**Hazard-Determining Components:** Methyl tri(methylethylketoxime)silane (EINECS# 245-366-4) and methyl ethyl ketoxime (EINECS# 202-496-6).

**Risk Phrases:**  
R 21 – Harmful in contact with skin  
R 40 – Limited evidence of a carcinogenic effect  
R 41 - Risk of serious damage to eyes  
R 43 – May cause sensitization by skin contact

**Safety Phrases:**  
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 – Wear suitable protective clothing and gloves.  
S51 – Use only in well-ventilated areas.

**SECTION 16 - OTHER INFORMATION:**

The information herein is given in good faith, but no warranty, express or implied, is made. Product users should make independent judgements of the suitability of this information to ensure proper use and to protect the health and safety of employees.

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