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# MATERIAL SAFETY DATA SHEET

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## SECTION 01 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Chemical Name: **SELF SEAL<sup>®</sup> TYPE-SSC / TYPE-SSR FIRESTOP COLLAR / RING**

Manufacturer: **NUCO INC.**  
150 Curtis Drive  
Guelph, Ontario N1K 1N5  
Tel: (519)-823-4994  
Fax: (519)-823-1099  
Infotrac 24 Hour Emergency Tel: (800)-535-5053

Date: **May 1, 2011**

Prepared by: **Technical Services Department**

WHMIS Classification: **Not controlled, manufactured article that does not release a hazardous chemical under normal conditions of use.**

Product Use: **Intumescent Silicone Rubber Collar/ Ring for Firestopping**

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## SECTION 02 – COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Ingredients</u>	<u>CAS No.</u>	<u>%</u>	<u>LD50(Oral-rat)</u>	<u>LC50(Inhalation-rat)</u>
1,3,5-Triazine - 2,4,6,-Triamine	108-78-1	15.0 – 40.0	3,100 mg/kg	Not available
Expandable Flake Graphite	12777-87-6	10.0 – 30.0	Not available	Not available
Quartz	14808-60-7	0.1 – 1.0	Not available	Not available

The ingredients listed above are controlled products as defined in CPR, am. SOR/88-555 or 29 CFR 1910.1200

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## SECTION 03 – HAZARDS IDENTIFICATION:

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

Eyes: **Not established**  
Skin: **Not established**  
Inhalation: **Not established**  
Ingestion: **Not established**

WHMIS HAZARD SYMBOL(S): **Not applicable**

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## SECTION 04 - FIRST AID MEASURES:

Eyes: **Flush with lukewarm water.**  
Skin: **Wash thoroughly with warm water and non-abrasive soap after handling.**  
Inhalation: **Not applicable**  
Ingestion: **Get medical attention.**

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## SECTION 05 - FIRE FIGHTING MEASURES:

Flammable Conditions: **Not established**  
Extinguishing Media: **Carbon dioxide, dry chemical, water fog or foam**  
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.**

Flash Point: **Not applicable**  
Flammability Limits: **Lower Explosion Limit - not available**  
**Upper Explosion Limit - not available**

Autoignition Temperature: **Not available**  
Hazardous Decomposition Products: **Carbon dioxide, carbon monoxide, silicone dioxide, sulfur oxides, nitrogen oxides, formaldehyde, and other potentially toxic fumes.**

Sensitivity - Impact: **None**  
Static: **None**

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## SECTION 06 – ACCIDENTAL RELEASE MEASURES:

Containment / Clean Up: Dispose in accordance with local, state, provincial, federal laws and regulations.

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**SECTION 07 – HANDLING AND STORAGE:**

Handling and Storage: Store in an adequately ventilated area under dry conditions between 50°F (10°C) to 77°F (25°C).

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**SECTION 08 – EXPOSURE CONTROL / PERSONAL PROTECTION:**

Component Exposure Limits: 1,3,5-Triazine - 2,4,6-Triamine (CAS# 108-78-1): Although the amine is encapsulated by a silicone binder observe the particulate limits. AIHA WEEL: 10 mg/m<sup>3</sup> inhalable fraction, 5 mg/m<sup>3</sup> respirable fraction.  
Expandable Flake Graphite (CAS# 12777-87-6): Although the graphite is encapsulated by a silicone binder observe the particulate limits. OSHA PEL: 2.5 mg/m<sup>3</sup> respirable fraction. ACGIH TLV: 2 mg/m<sup>3</sup> respirable particulate.  
Quartz (CAS# 14808-60-7): Although the quartz is a naturally occurring component of the graphite and is encapsulated by a silicone binder observe the particulate limits. OSHA PEL: TWA 0.3 mg/m<sup>3</sup> total dust, 0.1 mg/m<sup>3</sup> respirable fraction. ACGIH TLV: TWA 0.1 mg/m<sup>3</sup> respirable fraction.

Respiratory: Wear an organic vapor NIOSH / MSHA approved respirator with dust protector when drilling concrete or drywall.

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: Solid – vulcanized rubber collar / ring  
Odor and Appearance: Low odor, gray colored with black flakes  
Odor Threshold: Not available  
Specific Gravity: 1.26 – 1.29  
Vapor Pressure: Not available  
Vapor Density: Not available  
Evaporation Rate: Not available  
Boiling Point: Not applicable  
Freezing Point: Not applicable  
pH: Not available  
Coeff. Oil/Water Distribution: Not available

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**SECTION 10 – STABILITY AND REACTIVITY:**

Chemical Stability: Stable but will begin to intumesce above 300°F (150°C)  
Incompatible Materials: Strong oxidizing agents or electrophiles (e.g. ferric chloride). Concentrated acids or bases can degrade the silicone polymer.  
Reactive Conditions: High temperature and incompatible materials.  
Hazardous Polymerization: Will not occur.

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**SECTION 11 - TOXICOLOGICAL INFORMATION:**

Effects of overexposure: Although quartz (CAS# 14808-60-7) is a naturally occurring component of the graphite (CAS# 12777-87-6) and is encapsulated by a silicone binder, prolonged overexposure to quartz dust causes fibrotic lung disease (silicosis) and potentially lung cancer.

Sensitization: No known applicable information  
Carcinogenicity: Quartz (CAS# 14808-60-7): IARC Group 1 – Carcinogenic to Humans; NTP – Reasonably Anticipated to be a Human Carcinogen; ACGIH A2 – Suspected Human Carcinogen.

Reproductive Toxicity: No known applicable information.  
Teratogenicity: No known applicable information.  
Mutagenicity: No known applicable information.  
Synergistic Products: No known applicable information.

**SECTION 12 – ECOLOGICAL INFORMATION:**

**Air:** Complete information is not yet available.  
**Water:** The 1,3,5-Triazine - 2,4,6,-Triamine (CAS# 108-78-1) is slightly soluble in water, inherently biodegradable with low toxicity to aquatic life (e.g., 96 h LC50 (for fish): > 3,000 mg/L, 48 h EC50 (for Daphnia): > 2,000 mg/L).  
**Soil:** Complete information is not yet available.

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**SECTION 13 – DISPOSAL CONSIDERATIONS:**

**Waste Disposal:** Dispose in accordance with Federal, State / Provincial and local regulations.

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**SECTION 14 - TRANSPORT INFORMATION:**

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

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**SECTION 15 - REGULATORY INFORMATION:**

**TSCA Inventory Status:** Chemical components listed on TSCA inventory except as exempted.  
**NFPA Profile:** Health 1, Flammability 0, Reactivity 0  
**SARA TITLE III Chemical Listings:** Section 302 Extremely Hazardous Substances (40 CFR 355): None  
Section 304 CERCLA Hazardous Substances (40 CFR 302): None  
Section 311/312 Hazard Class (40 CFR 370): Acute: No; Chronic: No; Fire: No; Pressure: No; Reactive: No  
Section 313 Toxic Chemicals (40 CFR 372): The nitric and sulfuric acids encapsulated within the graphite matrix do not pose a hazard during normal use but are subject to the reporting requirements of Section 313 of Title III (40 CFR Part 372): 2.9% nitric acid (CAS# 7697-37-2) and 4.75% sulfuric acid (CAS# 7664-93-9).  
**State Substance List:** This product contains a listed substance(s) that appears on one or more of the Substance Lists for Pennsylvania, Massachusetts and New Jersey: 1,3,5-triazine-2,4,6-triamine (CAS#108-78-1); natural graphite (CAS# 7782-42-5); dimethylsiloxane, hydroxy terminated (CAS# 70131-67-8); dimethylsiloxane, trimethylsiloxy terminated (CAS# 63148-62-9); and quartz (CAS# 14808-60-7).  
**California Proposition 65 List:** Strong inorganic acid mists containing sulfuric acid (not released under normal conditions of use).  
**Regulatory Volatile Organic Content:** Not applicable  
**WHMIS Classification:** Not controlled, manufactured article that does not release a hazardous chemical under normal conditions of use.  
**Domestic Substance List:** Chemical components listed on DSL except as exempted.

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**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.

Form: MSDS SELF SEAL TYPE-SSC TYPE-SSR Rev.: 5 Date: 05/11