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# SAFETY DATA SHEET

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## SECTION 1 – IDENTIFICATION:

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

**Recommended use:** Intumescent Silicone Rubber Collar/ Ring for Firestopping

**Restrictions on use:** No further information available

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

**Emergency telephone:** Infotrac 24 Hour Emergency Tel: (800)-535-5053

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## SECTION 2 – HAZARDS IDENTIFICATION:

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

**GHS Label elements:**

**Hazard symbols:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** Not applicable

**Other hazards:** None known.

**Supplemental information:** No further information available

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## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS:

**Substance/Mixture :** Solid – vulcanized rubber collar / ring

Chemical Name	CAS No.	Concentration (%)
1,3,5-Triazine - 2,4,6,-Triamine	108-78-1	15.0 – 40.0
Expandable Flake Graphite	12777-87-6	10.0 – 30.0
Quartz	14808-60-7	0.1 – 1.0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

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## SECTION 4 - FIRST AID MEASURES:

**Eye contact:** Flush with lukewarm water.

**Skin contact:** Wash thoroughly with warm water and non-abrasive soap after handling.

**Inhalation:** Not applicable

**Ingestion:** Get medical attention.

**Most important symptoms/effects, acute and delayed:** None known.

**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically.

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**SECTION 5 - FIRE FIGHTING MEASURES:**

<b>Suitable extinguishing media:</b>	Carbon dioxide, dry chemical, water fog or foam.
<b>Unsuitable extinguishing media:</b>	None known.
<b>Specific hazards arising from the chemical:</b>	Exposure to combustion products may be hazard to health.
<b>Special protective equipment and precautions for fire fighters:</b>	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.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES:**

<b>Personal precautions, protective equipment and emergency procedures:</b>	Follow safe handling advice and personal protective equipment recommendation in Section 8.
<b>Environment precautions:</b>	Discharged into the environment must be avoided. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
<b>Methods and materials for containment and cleaning up:</b>	Dispose in accordance with local, state, provincial, federal laws and regulations.

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**SECTION 7 – HANDLING AND STORAGE:**

<b>Precautions for safe handling:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Conditions for safe storage, including any incompatibilities:</b>	Store in an adequately ventilated area under dry conditions between 50°F (10°C) to 77°F (25°C).

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**SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION:****Control Parameters:**

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.

**Engineering controls:** Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Use respiratory protection unless local exhaust ventilation is provided or exposures are within guidelines.

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

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Appearance:</b>	Solid – vulcanized rubber collar / ring, gray colored with black flakes
<b>Odor:</b>	Low odor
<b>Odor threshold:</b>	Not available
<b>pH (ASTM D1293):</b>	Not available
<b>Melting point/Freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not applicable.
<b>Flash point:</b>	Not applicable.

<b>Evaporation rate:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not classified as a flammability hazard
<b>Upper flammability or explosion limit:</b>	Not available
<b>Lower flammability or explosion limit:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Specific gravity:</b>	1.26 – 1.29
<b>Solubility:</b>	Not available
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Volatile Organic Content:</b>	Not applicable

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**SECTION 10 – STABILITY AND REACTIVITY:**

<b>Reactivity:</b>	Not classified as a reactivity hazard.
<b>Chemical stability:</b>	Stable but will begin to intumesce above 300°F (150°C)
<b>Possibility of hazardous reactions:</b>	Will not occur.
<b>Conditions to avoid:</b>	High temperatures and incompatible materials.
<b>Incompatible materials:</b>	Strong oxidizing agents or electrophiles (e.g. ferric chloride). Concentrated acids or bases can degrade the silicone polymer.
<b>Hazardous decomposition products:</b>	Carbon dioxide, silicone dioxide, calcium oxide, nitrogen oxides, formaldehyde, and traces of incompletely burned carbon products.

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**SECTION 11 - TOXICOLOGICAL INFORMATION:**

**Information on the likely routes of exposure:**

<b>Inhalation:</b>	Not applicable
<b>Ingestion:</b>	Not applicable
<b>Skin contact:</b>	No skin irritation.
<b>Eye contact:</b>	No eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics:**

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.

**Acute toxicity:**

1,3,5-Triazine-2,4,6-Triamine (CAS# 108-78-1): LD50 (Oral-Rat): 3,100 mg/kg; LC50 (Inhalation-Rat): not available

Expandable Flake Graphite (CAS# 12777-87-6): LD50 (Oral-Rat): not available; LC50 (Inhalation-Rat): not available.

Quartz (CAS# 14808-60-7): LD50 (Oral-Rat): not available; LC50 (Inhalation-Rat): not available.

<b>Skin corrosion/irritation:</b>	No skin irritation.
<b>Serious eye damage/irritation:</b>	No eye irritation.
<b>Aspiration hazard:</b>	Not classified based on available information.
<b>Specific target organ toxicity - single exposure:</b>	Not classified based on available information.
<b>Specific target organ toxicity – repeated exposure:</b>	Not classified based on available information.
<b>Respiratory or skin sensitization:</b>	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.

**Germ-cell mutagenicity:** No known applicable information.

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**SECTION 12 – ECOLOGICAL INFORMATION:**

**Ecotoxicity:** Complete information is not yet available.

**Persistence and degradability:** 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).

**Bioaccumulative potential:** Complete information is not yet available.

**Mobility in soil:** Complete information is not yet available.

**Other adverse effects:** 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:**

**SARA 304 Extremely Hazardous Substances Reportable Quantity:**

This product does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:** No SARA hazards.

**SARA 302:** No chemicals in this product are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313:**

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).

**Other U.S. State Inventories:**

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)

Quartz (CAS# 14808-60-7)

**California Proposition 65:**

Strong inorganic acid mists containing sulfuric acid (not released under normal conditions of use).

**The ingredients of this product are reported in the following inventories:**

**TSCA:** All chemical substances in this product are included on or exempted from listing on the TSCA inventory of Chemical Substances.

**DSL:** All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempted from listing on the Canadian Domestic Substances List (DSL).

**NFPA Profile:** Health 1, Flammability 0, Reactivity 0

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**SECTION 16 - OTHER INFORMATION:**

**Prepared by:** Technical Services Department  
**Revision date:** April 30, 2015

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:** SDS SELF SEAL TYPE-SSC TYPE-SSR **Rev.:** 8 **Date:** 04/15