
SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION:

Product name: SELF SEAL® GG-266 INTUMESCENT FIRESTOP CAULK
Recommended use: Intumescent Silicone Caulk 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

SECTION 2 – HAZARDS IDENTIFICATION:

GHS Classification: Eye irritation – Category 2B
Skin irritation – Category 2
Skin sensitization – Category 1B
Carcinogenicity – Category 2

GHS Label elements:

Hazard symbols:



Signal word:

Warning

Hazard statements:

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes eye irritation
H351 Suspected of causing cancer

Precautionary statements:

Prevention:

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust, fume or vapors.
P262 Do not get in eyes, on skin or on clothing.
P264 Wash hands and other skin areas thoroughly after handling
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response : P302+P352+P333+P313 If on skin: wash with plenty of soap and water. If skin irritation or rash occurs, get medical attention.
P305+P351+P338 If in eyes: rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313 If exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P321 Specific treatment: Seek immediate medical advice. Refer to product label and Section 4 of this SDS.
P362 Take off contaminated clothing and wash it before reuse.

Storage:

P405+P403 Store locked up. Store in a well-ventilated place.

Disposal:

P501 Dispose of contents and container in accordance with applicable local, regional, national and international regulations.

Other hazards: None known.

Supplemental information: 95-98% of the mixture consists of component(s) of unknown acute inhalation toxicity.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS:

Substance/Mixture : Mixture

Chemical Name	CAS No.	Concentration (%)
Methyl Tri(methylethylketoxime)silane	22984-54-9	3.0 - 7.0
Amorphous Silica	7631-86-9	1.0 – 5.0
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.

SECTION 4 - FIRST AID MEASURES:

Eye contact: Flush with copious quantities of lukewarm water for at least 15 minutes. Do not attempt to physically remove the solids or gums from the eye. Seek medical attention immediately if irritation persists.

Skin contact: 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: Do not induce vomiting. Never give anything by mouth to an unconscious person. 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.

SECTION 5 - FIRE FIGHTING MEASURES:

Suitable extinguishing media: Carbon dioxide, dry chemical, water fog or foam. Water can be used to cool fire exposed containers.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: Exposure to combustion products such as carbon oxides, silicone oxides and formaldehyde may be hazard to health.

Special protective equipment and precautions for fire fighters: 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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures: Follow safe handling advice and personal protective equipment recommendation in Section 8.

Environment precautions: 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.

Methods and materials for containment and cleaning up: Restrict access to the area of the spill. Provide ventilation, NIOSH/MHSA approved respirator and protective clothing. Scrape up caulk and place in

container for disposal. Clean area as appropriate since silicone materials can represent a slip hazard. Cleaning may require steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state, provincial, federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup.

SECTION 7 – HANDLING AND STORAGE:

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage, including any incompatibilities: 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. Do not store with strong oxidizing agents.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION:

Control Parameters:

Ingredient	CAS No.	Value Type (form of exposure)	Control parameters/ Permissible concentration	Basis
Amorphous Silica	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ /%SiO ₂ (Silica)	OSHA Z-3
		TWA	6 mg/m ³ (Silica)	NIOSH REL
1,3,5-Triazine-2,4,6-Triamine	108-78-1	WEEL (inhalable fraction)	10 mg/m ³	AIHA
		WEEL (respirable fraction)	5 mg/m ³	AIHA
Expandable Flake Graphite	12777-87-6	PEL (respirable fraction)	5 mg/m ³	OSHA
		PEL (total dust)	15 mg/m ³	OSHA
		TWA (respirable particles)	3 mg/m ³	ACGIH
		TWA (inhalable particles)	10 mg/m ³	ACGIH
		TWA (total dust)	0.3 mg/m ³	OSHA Z-3
Quartz	14808-60-7	TWA (respirable)	0.1 mg/m ³	OSHA Z-3
		TWA (respirable)	2.4 mppcf	OSHA Z-3
		TWA (respirable fraction)	0.025 mg/m ³	ACGIH
		TWA (respirable dust)	0.05 mg/m ³	NIOSH

Hazardous components without workplace control parameters:

Methyl Tri(methylethylketoxime)silane (CAS# 22984-54-9)

Occupational exposure limits of decomposition products:

Ingredient	CAS No.	Value Type (form of exposure)	Control parameters/ Permissible concentration	Basis
Methyl Ethyl Ketoxime	96-29-7	TWA	10 ppm	DCC OEL
Further information: Skin sensitization				

		TWA	10 ppm	US WEEL
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Engineering controls: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Wear an organic vapor NIOSH/MSHA approved respirator unless local exhaust ventilation is provided or exposures are within guidelines. 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Red paste with black particles
Odor: Low odor
Odor threshold: Not available
pH (ASTM D1293): Not available
Melting point/Freezing point: Not available
Initial boiling point and boiling range: Not available
Flash point: Not available
Evaporation rate: Not available
Flammability (solid, gas): Not classified as a flammability hazard
Upper flammability or explosion limit: Not available
Lower flammability or explosion limit: Not available
Vapor pressure: Less than 5 mm Hg
Vapor density: Greater than 1
Specific gravity: 1.25
Solubility: Not available
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Volatile Organic Content: 25 grams per liter, <3% by weight (Chemically Curing Sealants and Caulks – CARB Method 310: VOC less water, less exempt compounds and LVP-VOCs).

SECTION 10 – STABILITY AND REACTIVITY:

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

SECTION 11 - TOXICOLOGICAL INFORMATION:

Information on the likely routes of exposure:

Inhalation: Prolonged inhalation may be harmful.
Ingestion: May be harmful if swallowed.
Skin contact: May cause skin irritation.
Eye contact: May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics:

The curing vapor, Methyl Ethyl Ketoxime (CAS# 96-29-7), 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.

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

Acute toxicity:

Ingredient name	Result	Species	Dose	Exposure
Amorphous Silica	LD50 Oral	Rat	>3,300 mg/kg	----
	LC50 Inhalation	Rat	>2.08 mg/L	4 hours
	LD50 Dermal	Rabbit	>5,000 mg/kg	----
Methyltri(methylethylketoxime) silane	LD50 Oral	Rat	>2,520 mg/kg	----
	LC50 Inhalation	Rat	>4.8 mg/L	4 hours
1,3,5-Triazine-2,4,6-Triamine	LD50 Oral	Rat	3,100 mg/kg	----
	LC50 Inhalation	Rat	Not available	----
Expandable Flake Graphite	LD50 Oral	Rat	Not available	----
	LC50 Inhalation	Rat	Not available	----
Quartz	LD50 Oral	Rat	Not available	----
	LC50 Inhalation	Rat	Not available	----

Skin corrosion/irritation: Skin irritation possible through repeated direct contact with the ketoxime in the uncured sealant.

Serious eye damage/irritation: Eye irritation possible through repeated direct contact with the ketoxime in the uncured sealant.

Aspiration hazard: No data available

Specific target organ toxicity - single exposure: Not classified based on available information.

Specific target organ toxicity – repeated exposure: Not classified based on available information.

Respiratory or skin sensitization: Allergic skin sensitization through repeated direct contact with the ketoxime in the uncured sealant.

Carcinogenicity: Male rodents exposed to Methyl Ethyl Ketoxime (CAS# 96-29-7) vapor throughout their lifetime developed liver carcinomas. These carcinomas were statistically increased at a concentration of 374 ppm.
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: Methyl Tri(methylethylketoxime)silane (CAS# 22984-54-9) is not considered a reproductive or developmental toxin based on studies on rats.

Teratogenicity: Methyl Tri(methylethylketoxime)silane (CAS# 22984-54-9) did not show teratogenic effects in animal experiments, even at maternally toxic concentrations.

Germ-cell mutagenicity: Methyl Ethyl Ketoxime (CAS# 96-29-7) is not considered mutagenic or genotoxic based on in vivo and in vitro studies.

SECTION 12 – ECOLOGICAL INFORMATION:

Ecotoxicity:

Methyltri(methylethylketoxime)silane:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): >120 mg/L, 96 hrs.

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (water flea)): >120 mg/L, 48 hrs.

Toxicity to algae: ErC50 (Selenastrum capricornutum (green algae)): 94mg/L, 72 hrs.

1,3,5-Triazine-2,4,6-Triamine:

Toxicity to fish: LC50 (for fish): >3,000 mg/L, 96 hrs.
Toxicity to daphnia and other aquatic invertebrates: EC50 (for Daphnia): >2,000 mg/L, 48 hrs.

Persistence and degradability:

Methyltri(methylethylketoxime)silane:

Biodegradability: Not readily biodegradable
Biodegradation: 14.5%, 21 days

1,3,5-Triazine-2,4,6-Triamine:

Biodegradability: Slightly soluble in water, inherently biodegradable with low toxicity to aquatic life

Bioaccumulative potential:

Methyltri(methylethylketoxime)silane:

Partition coefficient: n-octanol/water: log Pow: 11.2

Mobility in soil:

No data available.

Other adverse effects:

No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS:

Disposal instructions: This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local, regional, national and international regulations.

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Dispose of as unused product in a safe way.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 - TRANSPORT INFORMATION:

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

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: Acute Health Hazard, Chronic Health Hazard

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:

Amorphous Silica (CAS# 7631-86-9)

1,3,5-triazine-2,4,6-triamine (CAS#108-78-1)

Graphite (CAS# 7782-42-5)

Methyl Tri(methylethylketoxime)silane (CAS# 22984-54-9)

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 2, Flammability 1, Reactivity 0

SECTION 16 – OTHER INFORMATION:

Prepared by: Technical Services Department

Revision date: May 1, 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.

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