MATERIAL SAFETY DATA SHEET

GG-266 INTUMESCENT FIRESTOP

1. Product and Company Identification

1.1. Identification of the substance or preparation:
- Not Applicable

1.2. Use of the substance of preparation:
Firestop Sealant

1.3. Company/undertaking identification:
TVM BUILDING PRODUCTS
169 JARI DRIVE
JOHNSTOWN, PA
15904

1.4. Telephone number for emergency:
24 hr. INFOTRAC: 1 - 800 - 535 - 5053

2. Hazards Identification

2.1. Eye Contact:
- Direct contact will cause irritation

2.2. Skin Contact:
- May cause moderate irritation
- Repeated skin contact will cause allergic skin reaction

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

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

3. Composition/Information on Ingredients

Hazardous Ingredients	CAS No.	Concentration (%)
Methyl Tri(methylethylketoxime)silane	22984-54-9	3.0 - 7.0
Amorphous Silica	7631-85-9	3.0 - 7.0
1,3,5-Triazine - 2,4,6,-Triamine	108-78-1	15.0 - 40.0
Natural Graphite	7782-42-5	10.0 - 30.0

4. First Aid Measures

4.1. Eye Contact:
- flush with copious quantities of lukewarm water
- Do not attempt to physically remove the solids or gums from the eye
- Seek medical attention

4.2. Skin Contact:
- Remove contaminated clothing
- Wash thoroughly with warm water and non-abrasive soap
- Seek medical attention if irritation persists

4.3. After Inhalation:

- Remove to fresh air and provide water
- Seek medical attention if irritation persists

4.4. After Ingestion:
- Seek medical attention immediately

5. Fire Fighting Measures

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

5.2. Special exposure hazards:
- Closed cup tested to have flash point of 212 °F (100°C)

5.3. Special protective equipment for firefighters:
- Use of self-contained breathing apparatus and protective clothing
- Determine the need to evacuate or isolate the area according to your local emergency plan

6. Accidental Release Measures

6.1. Methods of cleaning up:
- Restrict access to the area of the spill
- Provide ventilation and protective clothing
- Scrape up sealant and place in container for disposal
- Clean sealant with steam or detergent
- Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur

7. Handling and Storage

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

7.2. Specific Uses:
- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1. Exposure limit values:

Methyl Tri(methylethylketoxime)silane:
OSHA Permissible Exposure Limit (PEL): 3 ppm TWA
ACGIH: 10 ppm (TLV-TWA), 10 ppm (TLV-STEL)

Amorphous Silica:
OSHA Permissible Exposure Limit (PEL): 15 mg/m^3 TWA
ACGIH: 10 mg/m^3 (TLV-TWA), 3 mg/m^3 respirable particulate

1,3,5-Triazine - 2,4,6,-Triamine:
AIHA (WEEL): 10 mg/m^3

Natural Graphite:
OSHA Permissible Exposure Limit (PEL): 2.5 mg/m^3

8.2. Personal Protection:

8.2.1. Respiratory protection:
- Wear an organic vapor NIOSH/MSHA approved respirator
- Passive ventilation when used indoors

- Local exhaust necessary to keep exposure levels within guidelines

8.2.2. Hand protection:
- Impermeable gloves

8.2.3. Eye protection:
- Wear eye protection with side shields

8.2.4. Skin protection:
- Wear appropriate work clothing or apron

9. Physical and Chemical Properties

9.1. General Information:

Physical State	: Red paste with black particles
Odor and Appearance	: Thixotropic Caulk
Specific Gravity	: 1.25
Vapor Pressure:	: < 5 mm Hg
Vapor Density	: > 1

10. Stability and Reactivity

10.1. Conditions to avoid/reactivity:
- High temperature, moisture and incompatible materials

10.2. Materials to avoid:
- Strong oxidizing agents or electrophiles (e.g. ferric chloride)
- Concentrated acids or bases can degrade the silicone polymer

11. Toxicological Information

11.1. Acute Toxicity:

MethylTri(methylethylketoxime)silane :

LD50 oral rat	: 2 - 3	ml/kg
LC50 inhalation rat	: >50	mg/L/4h

Amorphous Silica:

LC50 oral rat	: 3 160	mg/kg
LC50 inhalation rat	: >0.139	mg/L/4h

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

LC50 oral rat	: 3 100	mg/kg

11.2. Chronic Toxicity:
- No ingredients considered by IARC, NTP or OSHA to be carcinogens
- Male rodents exposed to Methyl Ethyl Ketoxime vapor throughout their lifetime developed liver carcinomas
- Carcinomas were statistically increased at a concentration of 375 ppm

11.3. Routes of Exposure: inhalation, eyes and skin

11.4. Acute effects/symptoms (upon overexposure):

After inhalation:
- curing vapor, Methyl Ethyl Ketoxime may cause drowsiness, injure blood, liver and may irritate or harm nose, throat, lungs and eyes

After eye contact:

- Irritation of the eyes

After Skin Contact:
- Allergic skin sensitization possible through repeated direct contact with the ketoxime in the uncured sealant

11.5. Chronic Effects

On continuous exposure/contact:
- Not known to cause reproductive, teratogenicity or mutagenicity problems

12. Ecological Information

12.1. Ecotoxicity:
- 1,3,5-Triazine - 2,4,6,-Triamine is slightly soluble in water, inherently biodegradable with low toxicity to aquatic life.

12.2. Mobility:
- Not volatile or soluble in water

For other physicochemical properties see section 9

13. Disposal Considerations

13.1. Provisions relating to waste:
- Dispose in accordance with Federal, State/Provincial and local regulations

14. Transport Information

GG-200 is not regulated for any form of transport.

15. Regulatory Information

15.1. TSCA Inventory Status:
- Chemical components listed on TSCA inventory except as exempted

15.2. NFPA Profile:
- Health 2, Flammability 1, Reactivity 0

15.3. SARA TITLE III Chemical Listings:
- Section 312 Hazard Class: Acute - Yes, Chronic - Yes, Fire - No, Pressure - No, Reactive - No
- Section 313 Toxic Chemicals: 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 and 4.75% sulfuric acid

15.4. 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: amorphous silica, calcium carbonate, methyl tri(methylethylketoxime)silane, dimethylsiloxane, hydroxyl terminated, and dimethylsiloxane, trimethylsiloxy terminated.

15.5. California Proposition 65 List:
- Strong inorganic acid mists containing sulfuric acid (not released under normal conditions of use)

15.6. Volatile Organic Content:
- 25 grams per liter (0.21 lb/gallon), 2.0% by weight (meets California Air Resources Board VOC standard for sealants and caulking compounds (12/31/2002).

15.7. WHMIS Classification:
- D2B

15.8. Domestic Substance List:
- Chemical components listed on DSL as exempted

16. Other Information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for each material used in combination with any other material or in any process, unless specified in the text.