

MATERIAL SAFETY DATA SHEET

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Date: 01/01/02

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Product Name:** CG-11, CG-16, CG-27, CG-44, or CG-54.**Product Description:** Water based coating for protection of metal during heat treating process.**Manufacturer:** A.O. SMITH CORPORATION
8160 HOLTON ROAD
FLORENCE, KY 41042
PHONE: (859) 727-3500**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Ingredient [CAS Number]	Percent by Weight	OSHA PEL TWA (mg/m ³)	ACGIH TLV TWA (mg/m ³)
Particulate Not Otherwise Classified, Frit [65997-18-4]	55 to 65	16	10
Silica - crystalline [14808-60-7]	1 to 2	0.1	0.1
Berium Compound, Frit [65997-18-4], as Ba (a)	0 to 2	0.5	0.5
Zirconium Compound, Frit [65997-18-4], as Zr (a)	0 to 2	5	5
Water	30 to 40	-	-

- (a) Frit (CAS # 65997-18-4) US-EPA/TSCA description: "Frit is a mixture of inorganic chemical substances produced by rapidly quenching a molten, complex combination of materials, confining the chemical substances thus manufactured as non-migratory components of glassy solid flakes or granules."

SECTION 3 - HAZARDS IDENTIFICATION**Routes of Entry:** Eye contact, skin contact, and inhalation.**Effects of Acute Exposure:**

Inhalation: Dust may cause irritation to respiratory tract or mucous membranes.

Ingestion: May cause irritation.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Effects of Chronic Exposure:

Carcinogenicity: The International Agency for Research on Cancer (IARC) classifies respirable-crystalline silica as "carcinogenic to humans (Group 1)." The U.S. National Toxicology Program (N.T.P.) classifies respirable-crystalline silica as "Reasonably Anticipated to be a Human Carcinogen (RAHC)."

SECTION 4 - FIRST AID MEASURES

Inhalation: Move person to fresh air. If breathing flush mouth and nasal passages thoroughly with water. If not breathing, perform artificial respiration. If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.

Ingestion: Consult a physician.

Eye Contact: Flush immediately with large amounts of lukewarm water for at least 15 minutes. Get medical attention.

Skin Contact: If skin becomes irritated, remove contaminated clothing. Wash area of contact thoroughly with soap and water. Wash clothing before reuse.

SECTION 5 - FIRE FIGHTING MEASURES**Flammable Limits:** None.**Flashpoint:** Non-flammable.**Extinguishing Media:** No fire hazard. Use extinguishing agent suitable for type of surrounding fire.**Special Fire Fighting Procedures:** None.**Unusual Fire / Explosion Hazards:** This material will not support combustion unless the water has evaporated.**Hazardous Decomposition Products:** Normal combustion products including carbon dioxide, carbon monoxide, and oxides of nitrogen.**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Reporting: Releases of this product to the environment are not reportable under CERCLA (40 CFR 302) or SARA (40 CFR 355). Check local, regional, state or provincial regulations for specific release reporting requirements.

Clean Up: Very slippery when spilled. Personnel should not be permitted to walk on areas wetted with spilled material. Absorb in sand or other absorbent inert material. Dispose of in a sanitary landfill. If spill is small, flush to sewer with large volume of water for dilution. Dry residue may be vacuumed or flushed to sewer. Avoid generating dust.

Additional Information: See Section 7 - Handling and Storage. See Section 8 - Exposure Controls / Personal Protection. See Section 13 - Disposal Considerations.

Material Safety Data Sheet for CG-11, CG-16, CG-27, CG-44, or CG-54.

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SECTION 7 - HANDLING AND STORAGE**Handling:** Mix well before using to assure product homogeneity.**Storage:** Store in closed containers to avoid possible contamination and evaporation.**Clean Up:** See Section 6.**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Controls:** Control equipment such as local exhaust ventilation, and point of generation collection are recommended means of minimizing mist or dust that is created.**Respiratory Protection:** Use NIOSH approved dust mask if working in a mist or dust.**Skin Protection:** Wear gloves, head coverings and full body clothing as necessary to prevent skin irritation.**Eye Protection:** Wear safety glasses to prevent eye contact. Have eye-washing facilities readily available where eye contact can occur.**SECTION 9 - PHYSICAL / CHEMICAL CHARACTERISTICS****State:** Liquid.**Specific Gravity:** 1.5 to 2.0.**pH:** 8 to 9.**Melting Point:** Solids, greater than 1200 °F.**Solubility in Water:** Solids are essentially insoluble.**Appearance / Odor:** Slurry. Slight odor.**Vapor Pressure, Vapor Density:** Not known.**Evaporation Rate:** Very low.**SECTION 10 - STABILITY AND REACTIVITY****Chemical Stability:** Stable under normal conditions.**Hazardous Polymerization:** Will not occur.**Conditions to Avoid:** None known.**Hazardous Decomposition:** None known.**SECTION 11 - TOXICOLOGICAL INFORMATION**

The International Agency for Research on Cancer (IARC) classifies respirable-crystalline silica as "carcinogenic to humans (Group 1)." The U.S. National Toxicology Program (N.T.P.) classifies respirable-crystalline silica as "Reasonably Anticipated to be a Human Carcinogen (RAHC)."

SECTION 12 - ECOLOGICAL INFORMATION

Not determined.

SECTION 13 - DISPOSAL CONSIDERATIONS

This product is not a listed or characteristic hazardous waste according to Federal regulations (40 CFR 261). Check local, regional, state, or provincial regulations for applicable requirements for disposal.

SECTION 14 - TRANSPORT INFORMATION**U.S. Department of Transportation (DOT) Classification:**

Not regulated.

SECTION 15 - REGULATORY INFORMATION**SARA Section 313:** This product does not contain any toxic chemicals subject to the annual reporting requirements of SARA section 313.**California Proposition 65:** Warning: This product contains chemicals known to the state of California to cause cancer.

Ingredient	Amount
Silica - crystalline [14806-80-7]	1 to 2 Percent by Weight.