



## 1. Chemical Product and Company Identification

Chemical Name: 7800 Series  
 Manufacturer: Superior Graphite  
 Address: 10 S. Riverside Plaza  
 Chicago IL 60606  
 Information Number: (312) 559-2999

## 2. Composition/Information on Ingredients

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Other Limits	%
Graphite, Natural (as respirable dust)	7782-42-5	2.5 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>	None	> 80
Silica, Crystalline Quartz (as respirable dust)	14808-60-7	0.1 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>	None	N/D
Sulfuric Acid	7664-93-9	1.0 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	None	< 15
Nitric Acid	7697-37-2	2.0 ppm	2.0 ppm	4 ppm STEL	< 15
Hydrochloric Acid	7647-01-0	5.0 ppm (ceiling)	2.0 ppm	None	<15

### Notes:

Tests performed on natural graphite have shown respirable quartz dust levels ranging from 0% to 5%.

## 3. Hazards Identification

Route (s) of Entry:	Inhalation	Skin	Ingestion
	Yes	Yes	Yes

### Health Hazards (acute and chronic):

**ACUTE:** High concentration of graphite dusts may be irritating to the eyes, skin, mucous membranes and respiratory tract. Nitric and sulfuric acids are corrosive. High concentrations of vapors or mists are highly irritating to the eyes, skin, mucous membranes and respiratory tract. Direct skin contact may cause chemical burns. Direct eye contact may cause corneal damage which can result in blindness. Ingestion may cause severe pain and chemical burns of the mouth, esophagus and stomach.

**CHRONIC:** Inhalation of high concentrations of graphite dusts over prolonged periods of time may cause a graphite pneumoconiosis. Symptoms can include

cough, shortness of breath and decrease in pulmonary function. Exposure to high concentrations of nitric and sulfuric acid vapors and mists over prolonged periods of time may increase the risk of developing emphysema and chronic bronchitis. Prolonged exposure to high concentrations of nitric and sulfuric acid vapors and mists may cause discoloration and erosion of the teeth. Exposure to high concentrations of nitric and sulfuric acid vapors and mists over prolonged periods of time may also cause a chronic conjunctivitis (eye irritation). Preexisting pulmonary disorders such as emphysema may possibly be aggravated by prolonged exposure to high concentrations of graphite dusts and nitric and sulfuric acid vapors and mists.

Carcinogenicity:	NTP Yes	IARC Monographs Yes	OSHA Regulated No
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Notes:

Signs and Symptoms of Exposure: Not known other than that mentioned in the health hazards.

Medical Conditions Generally Aggravated by Exposure: No medical conditions are known to be aggravated by this product.

#### 4. First Aid Measures

Eyes: Flush thoroughly with water for 15 minutes. Get medical attention.

Skin: Wash exposed skin with soap and water. If irritation persists get medical attention. Launder severely contaminated clothing before reuse.

Ingestion: Do not induce vomiting. Get medical attention. Give several glasses of water to dilute the acid. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air area. If breathing becomes difficult, get medical attention.

#### 5. Fire Fighting Measures

Flash Point: (method)	N/A	Flammable Limits:	LEL: N/A	UEL: N/A
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Extinguishing Media: Water, carbon dioxide, foam or dry chemical.

Special Fire Fighting Procedures: Wear NIOSH approved self contained breathing apparatus to fight a fire involving this material.

Unusual Fire and Explosion Hazards: None

NFPA Hazard Rating:

**Health**

**2**

**Flammability**

**0**

**Reactivity**

**0**

NFPA Notes:

## 6. Accidental Release Measures

Spill/Leak Procedures: Spilled or released material should be picked up with a suitable implement and returned to the original container if reusable. If not reusable, the material should be placed in DOT approved containers for disposal. Personnel involved in the clean-up should wear appropriated personal protective equipment. See section 7. Unauthorized personnel should be kept clear of the area of spills or releases. Do not allow material to enter storm or sanitary sewers, groundwater or soil. Releases may be reportable to local, state, or federal authorities.

Dispose of in accordance with local, state and federal regulaitons.

## 7. Handling and Storage

Handling and Storage Precautions: Keep containers tightly closed when not in use. Graphite causes slippery conditions. Graphite, being conductive, can cause short circuits and other electrical malfunctions. Temperatures above 100 F may liberate acid fumes.

Work/Hygienic Practices: Wash exposed skin with soap and water after handling this product.

## 8. Exposure Controls/Personal Protection

Respiratory Protection (specify type): Use NIOSH/MSHA approved mask for chemical products if ACGIH, OSHA and/or TWA limits will be exceeded.

Local Exhaust	Mechanical (general)	Special	Other
Required	Required	None	None

Eye/Face Protection: Safety glasses, goggles or face shield. Eye wash station should be available.

Skin Protection: Neoprene or Nitrile gloves. Wear acid resistant protective clothing. Safety shower should be available.

## 9. Physical/Chemical Characteristics

Physical State:Solid  
Appearance:Gray  
Odor:Acrid  
Specific Gravity (H<sub>2</sub>O=1):N/A  
Water Solubility:Negligible

Boiling Point:N/A  
Melting Point:> 5000 F  
Vapor Pressure (mm Hg):N/A  
Vapor Density (air=1):N/A  
Evaporation Rate: N/A  
(Butyl Acetate = 1)

## 10. Stability and Reactivity

Stability: Material is stable.

Incompatibility (materials to avoid): Strong oxidizing agents, acids and alkalis.

Hazardous Decomposition Products: On burning, may release carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

## 11. Transportation Information

Not regulated.

## 12. Other Information

Disclaimer: The information contained herein is based on data available. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.

All components of this product are on the TSCA inventory.

Unk. = Unknown

N/A = Not applicable

Nav = Not available

N/D = Not determined

N/E = Not established

Prop. = Proprietary

Prepared: Date 29/07/91

Revised: Date 21/02/2012