

**MATERIAL SAFETY DATA SHEET****SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>Product:</b>	MZC-2, MZ-2, MZ-25, MZ-21, MZ-2H, MZ-5	<b>Trade Name:</b>	Extra Fine Graphite
<b>Manufacturer:</b>	AGS Company	<b>Common Name:</b>	Powdered Graphite
<b>Street Address:</b>	2651 Hoyt St		
<b>City/ State/ Zip</b>	Muskegon Hts., MI 49444		
<b>Phone:</b>	800-253-0403		
<b>Phone:</b>	231-733-2101		
<b>FAX:</b>	231-733-1784	<b>Original Issue Date:</b>	11/14/1985
<b>Transportation Emergency:</b>	CHEM-TEL	<b>Revision No</b>	9
<b>Phone:</b>	800-255-3924	<b>Date</b>	12/11/2012

**SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS**

ITEM	CAS NUMBER	WT/WT %
1 Graphite	7782-42-5	60-100

**EXPOSURE LIMITS**

ITEM	TLV-TWA	ACGIH	TLV-STEL	OSHA	PEL-TWA	PEL-CEILING
1		2 mg/m <sup>3</sup>	N.E.		15 mppcf	N.E.

(See Section 16 for abbreviation legend)

**SECTION 3 - HAZARDS IDENTIFICATION**

**EYE CONTACT:** Dust can cause pain, tearing, reddening and possibly swelling.

**SKIN CONTACT:** Prolonged or repeated contact may result in irritation.

**INHALATION:** May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. May produce black sputum, decreased pulmonary function and lung fibrosis.

**INGESTION:** Not expected to be a health hazard.

**CHRONIC HAZARDS:** Overexposure may cause development of pneumoconiosis, a disease of the lungs.

Primary Route(s) of Entry Skin and eye contact or ingestion.

**SECTION 4 - FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN CONTACT:** Wash affected areas with soap and water. Get medical attention if irritation occurs.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**INGESTION:** Get medical attention immediately. If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

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**MATERIAL SAFETY DATA SHEET**  
**SECTION 5 - FIRE FIGHTING MEASURES**

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FLASH POINT: N.A. LOWER EXPLOSIVE LIMIT: N.D.  
UPPER EXPLOSIVE LIMIT: N.D.

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: Water fog, dry chemical, CO<sup>2</sup>, foam, and alcohol foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Finely divided particles can spontaneously combust in air and may explode causing injury and/or death. If possible control the release of particles in the air.

SPECIAL FIREFIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective gear. Water spray may be utilized to cool containers.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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RECOVERY PROCEDURES: Collect spilled material then place in a chemical waste container.

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**SECTION 7 - HANDLING AND STORAGE**

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HANDLING: Wash thoroughly after handling

STORAGE: Keep away from heat, sparks, and flame.

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**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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ENGINEERING CONTROLS: Use in well ventilated area. Local exhaust could be utilized to maintain particulate concentration below PEL.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed, however, if high particulate concentration should develop, use a NIOSH approved dust/particulate respirator.

SKIN PROTECTION: Where contact is likely, wear chemical resistant gloves.

EYE PROTECTION: Wear safety glasses with side shields or goggles.

OTHER PROTECTIVE EQUIPMENT: Eye wash in work area.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with eyes, skin, and clothing.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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BOILING RANGE	Sublimes	VAPOR DENSITY:	N.A.
ODOR	None	ODOR THRESHOLD	N.D.
APPEARANCE	Dark Gray	EVAPORATION RATE	N.A.
SOLUBILITY IN H <sub>2</sub> O	Negligible		
MELT POINT	6602°F	SPECIFIC GRAVITY	~2.2
VAPOR PRESSURE	N.A.	pH @ 0.0%	N.A.
PHYSICAL STATE	Powder	VISCOSITY:	N.A.
COEFFICIENT OF WATER / OIL DISTRIBUTION: Negligible			
(See Section 16 for abbreviation legend)			

**MATERIAL SAFETY DATA SHEET**  
**SECTION 10 - STABILITY AND REACTIVITY**

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CONDITIONS TO AVOID: Sources of ignition and creating airborne dust.

INCOMPATIBILITY: Graphite reacts vigorously with liquid potassium, potassium peroxide and will ignite with chlorine trifluoride and fluorine.

HAZARDOUS DECOMPOSITION PRODUCTS Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions

STABILITY: This product is stable under normal storage conditions.

**SECTION 11 - TOXICOLOGICAL PROPERTIES**

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PRODUCT LD-50  
No information found.

PRODUCT LC-50

**SECTION 12 - ECOLOGICAL INFORMATION**

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ECOLOGICAL INFORMATION: No information

**SECTION 13 - DISPOSAL CONSIDERATIONS**

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DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

**SECTION 14 - TRANSPORTATION INFORMATION**

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DOT PROPER SHIPPING NAME Not Regulated

DOT TECHNICAL NAME N.A.

DOT HAZARD CLASS N.A.

HAZARD SUBCLASS: N.A.

UN / NA NUMBER: N.A.

PACKING GROUP: N.A.

RESP. GUIDE PAGE

N.D.

**SECTION 15 - REGULATORY INFORMATION**

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U.S FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 cfr 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III ) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard Chronic Health Hazard

**MATERIAL SAFETY DATA SHEET****SARA SECTION 313**

This product contains the following substance subject to the reporting requirements of Section 313 of Title of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT /WT % IS LESS THAN
No SARA Section 313 components exist in this product.		%

**TOXIC SUBSTANCE CONTROL ACT:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
No components are subject to reporting under TSCA 12(b)	

U.S. STATE REGULATIONS: AS FOLLOWS -

**NEW JERSEY RIGHT-TO-KNOW:**

The following materials are non-hazardous, but are among the top five components in this product:

CHEMICAL NAME	CAS NUMBER
No non-hazardous materials are among the top five ingredients.	

**PENNSYLVANIA RIGHT-TO-Know**

The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
No non-hazardous ingredients are present at greater than 3%	

**CALIFORNIA PROPOSITION 65:**

WARNING: The chemical(s) noted below and contained in this product, are know to the state of California to causes cancer, birth defects or other reproductive harm.

CHEMICAL NAME	CAS NUMBER
No Proposition 65 chemicals exist in this product.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: Class D Division 2 Subdivision B: Toxic Material

WHMIS LABEL: Packaged under Consumer Chemicals and Container Regulations.

**SECTION 16 - OTHER INFORMATION**

HMIS RATINGS:	Health	1	Flammability	0	Phys. Haz.	2	PPE	A
NFPA	Health	1	Flammability	0	Reactivity	0		

VOLATILE ORGANIC COMPOUNDS (VOCs): 0 lbs / gal 0 grams / liter

LEGEND: N.A. Not Applicable N.E. Not Established  
N.D. Not Determined

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