

EMS CATALOG NO: 12660  
 EMS PRODUCT: Colloidal Graphite Alcohol Base  
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 PAGE NUMBER: One of Six

**MATERIAL SAFETY DATA SHEET**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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**FOR PRODUCT AND SALES INFORMATION**

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**Section 1: Product Identification:**

Product Name: Colloidal Graphite  
 Chemical Family: Graphite in isopropanol.

**Section 2 : Hazardous Ingredients**

Chemical Name	CAS #	Wgt. %	Carcinogenicity			Exposure Limits	
			NTP	IARC	OSHA	ACGIH TLV	OSHA PEL
Isopropanol	67-63-0	>50	N	N	N	400.00 PPM	400.00 PPM
Proprietary	Access	<20	N	N	N	10.00	15.00

Thickener	#223					mg/m <sub>3</sub>	mg/m <sub>3</sub>
Propylene Glycol Methyl Ether	107-98-2	<20	N	N	N	100.00 PPM	100.00 PPM
n-Butyl Alcohol	71-36-3	<5	N	N	N	50.00 PPM	100.00 PPM
Graphite	7782-42-5	<20	N	N	N	2.00 mg/m <sub>3</sub>	2.50 mg/m <sub>3</sub>

### Section 3: Physical Data

Boiling Point: 82°C  
 Melting Point: NA  
 Specific Gravity: 0.90  
 Vapor Density: 2.07  
 Solubility in H<sub>2</sub>O: Miscible  
 Evaporation Rate: 2.3  
 Vapor Pressure: 31.00 mmHg @ 20°C  
 Viscosity: 200-800  
 Freezing Point: Not available

Freezable: No

Appearance and Odor: Viscous black fluid.  
 VOC: 710 G/L

Reduced VOC: 773 G/L

### Section 4: Handling and Storage

Storage temperature: Ambient. Storage pressure: Atmospheric

Keep container closed. Loosen cautiously before opening. Store in a cool and well-ventilated place away from incompatible materials. (See stability and Reactivity Section 5). Keep away from heat, sparks and flame. Protect material from direct sunlight. Ground and bond containers when transferring materials. Empty containers may retain hazardous properties. Follow all MSDS/label warnings even after container is emptied.

### Section 5 : Stability and Reactivity Data

General: This product is stable and hazardous polymerization will not occur.

Incompatibility (Materials/Conditions to Avoid): Strong oxidizers.

## **Section 6: Health Hazard Information/Identification**

Emergency Overview: Repeated exposures to high vapor concentrations may cause irritation of the respiratory system and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Potential Health Effects:

Eyes: Causes severe eye irritation.

Skin: May cause moderate skin irritation.

Other Skin Contact: The components of this product are not expected to be absorbed through the skin.

Inhalation: Vapors and mists generated from this product may be harmful if inhaled.

Dusts generated from sanding and grinding on surfaces coated with this product may be harmful if inhaled. Vapors and mists irritate eyes, nose and throat.

Ingestion: Harmful if swallowed.

Chronic: This product contains graphite, which can accumulate in lung tissue after long-term exposure to the dust. The potential for such exposure from the use of this product is very limited.

## **Section 7 : Exposure Controls/ Protection Information**

Engineering Controls: Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Overexposures to vapors and mists may be prevented by ensuring ventilation controls, local exhaust and/or fresh air entry. NIOSH/MSHA Schedule TC-23C- air-purifying or a Schedule TC-19C- air supplied respirator may also be used to reduce exposures. Read the manufacturer's instructions and literature carefully to determine the type(s) of airborne contaminant(s) against which the respirator is effective and how it is to be properly fitted.

Eye Protection: Vapor tight chemical-type splash goggles should be worn when the possibility exists for eye contact due to splashing or spraying of liquid or the generation of airborne particles or vapors.

Skin Protection: Wear protective clothing, including an impermeable apron or disposable suit and gloves. This protective equipment should be constructed of materials(s) which are appropriate to prevent contact with the chemicals listed in the ingredient section of the MSDS.

## **Section 8: Emergency and First Aid Procedures**

Ingestion: Keep individual calm and seek medical attention immediately. Do not induce vomiting.

Skin Contact: If excessive skin contact with this product occurs, flush immediately with plenty of water and wash with soap and water.

Eye Contact: If this product is splashed into the eyes, flush eyes immediately with water for at least 15 minutes.

Inhalation: If excessive amounts of vapor or mists from his product are inhaled, remove to fresh air. Apply artificial respiration and other supportive measures as required. Consult a poison center, emergency room or lung specialist for additional information and guidance.

## Section 9: Fire and Explosion Hazard Data

Flash Point (method used): 52°F (Pensky-Martens closed cup)

Flammable Limits: Lower: 2.0, Upper: 12.0

General Hazard: Flammable/combustible material; may be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

### **FIRE:**

Small Fire Fighting Instructions: Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam. Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane.

Large Fire Fighting Instructions: Water spray, fog or alcohol-resistant foam.

General Fire Fighting Instructions:

Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Fire Fighting Equipment: Positive pressure self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

Unusual Fire and Explosion Hazards: Keep away from sparks, open flames or other sources of ignition.

Hazardous Combustion or Decomposition Products: Oxides of Carbon

## Section 10: Accidental Release Measures

Spills: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapor; but it may not prevent ignition in closed spaces. Isolate area until gas has dispersed.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large spills: Dike far ahead of liquid spill for later disposal.

Disposal Considerations: Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state

and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.

**Section 11: Toxicological Information**

CAS ingredients: N/A (LD50 is for oral rat)

**Section 12: Ecological Information**

N/A

**Section 13: Disposal Considerations**

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.

**Section 14: Transportation Information**

DOT (Department of Transportation)  
Proper Shipping Name: PAINT  
Hazard Class: 3 PG: II

Identification Number: UN-1263

**Section 15: Regulatory Information**

SARA Title 3: Section 313 Information (40 CFR 372)

This product contains a chemical which is listed in Section 313 at or above DE MINIMIS concentrations. The following listed chemicals are present:

CAS Number	Description	%
67-63-0	Isopropanol	>50
71-36-3	n-Butyl Alcohol	<5

TSCA- All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

NA= Not applicable

<b>Section 16: Other Information</b>
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If this material is part of a multiple component system, read the MSDS(s) for the other component(s) before blending as the resulting mixture may have the hazards of all its parts. These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.