

# **Material Safety Data Sheet**





### Section I – Product and Company Identification

Product Name/ Trade Name	Graphite Plus Aerosol		
Manufacturer	Cummings-Moore Graphite Co.	<b>Emergency Phone</b>	1-800-255-3924
	1646 N. Green Ave.	Information Phone	1-908-537-2155
	Detroit, MI 48209	Date Prepared	9/13/10
		Preparer (optional)	LRM

#### Section II – Hazard Ingredients/Identity Information

Hazardous	CAS Number	OSHA PEL	ACGIH TLV	Other	%
Components				Limits	(optional)
Isopropyl alcohol	67-63-0	400 ppm	400 ppm (TWA),	n/a	< 60
			500 ppm (STEL)		
Propane / isobutane /	68476-86-8	800 ppm	1000 ppm (TWA)	n/a	< 35
n-butane					
Methyl alcohol	67-56-1	200 ppm skin	200 ppm skin (TWA),	n/a	< 5
			250 ppm skin (STEL)		
1-methoxy-2-propanol	107-98-2	100 ppm	100 ppm (TWA),	n/a	< 5
			150 ppm (STEL)		
Graphite	7782-42-5	15 mppcf	2.0 mg/m <sup>3</sup>	n/a	< 2

#### Section III – Physical / Chemical Characteristics

Boiling Point	-43 to 248°F	Specific Gravity	0.71
_		$(H_2O = 1)$	
Vapor Pressure (mm Hg)	55-65 PSIG	Melting Point	n/a
Vapor Density (Air = 1)	> 1	<b>Evaporation Rate</b>	> 1
		(Butyl Acetate = 1)	
Solubility in Water	Negligible	Appearance and	Black liquid in aerosol package,
pH	n/a	Odor	alcohol odor

## Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used)	-156°F	Flammable Limits: LEL = 1.8% UEL= 36%		
Extinguishing Media	Alcohol foam, CO <sub>2</sub> , dry chemical, water fog			
Special Fire Fighting	Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-			
Procedures	contained breathing apparatus pressure-demand (MSHA/NIOSH approved or			
	equivalent) and full protect	ive gear.		
Unusual Fire and	Vapors can travel to a sou	rce of ignition and flash back. "Empty" containers retain		
Explosion Hazards	product residue (liquid and/or vapor) and can be dangerous. DO NOT			
	PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE			
	SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR			
	OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR			
	DEATH. Empty drums should be completely drained, properly bunged and promptly			
	returned to a drum recond	itioner, or properly disposed of.		

### Section V – Reactivity Data

Stability	Stable under normal storage conditions.
Conditions to Avoid	All sources of ignition, welding arcs, and open flames.
Incompatibility (Materials to Avoid)	Strong acids, alkalis, oxidizers, and amines.
Hazardous Decomposition or	Oxides of carbon, oxides of nitrogen, and may produce forms of chloride,
Byproducts	chlorine, and phosgene.
<b>Hazardous Polymerization</b>	Will not occur under normal conditions.

### Section VI – Health Hazard Data

Route(s) of Entry: Inhalation?	Yes	Skin?	Yes	Ing	estion?	Yes	
Carcinogenicity:	NTP? No	IAR	C Monographs?	No	OSHA	<b>Regulated?</b>	No
Health Hazards	*** Emerger	cy Overv	view *** Vapors	irritating to	o eyes a	nd respirator	y tract.
(Acute and Chronic)	Vapors may	ause flas	h fire or explosio	n.			
	Eye Contact	: Liquid, a	aerosols, and va	pors of thi	s produc	t are irritating	g and can
	cause pain, t	earing, red	ddening and swe	lling acco	mpaniec	by a stinging	g sensation
	and/or feeling	like that	of fine dust in the	e eyes.			
	Skin Contac	t: Prolon	ged or repeated	contact ca	an result	in defatting a	and drying of
	skin which m	ay result i	n skin irritation a	nd dermat	titis (rasł	າ).	
	Inhalation:	leadache	es, dizziness, nau	isea, decr	eased b	lood pressure	e, changes
	in heart rate	and cyano	osis may result fr	om over e	xposure	to vapor or s	kin
	exposure. P	olonged i	nhalation may be	e harmful.			
	Ingestion: This material may be harmful or fatal if swallowed.						
	Chronic Effe	cts: Ove	rexposure may c	ause nerv	ous sys	tem damage	, lung
	damage, kidr	ey damag	ge, and liver diso	rder (eder	ma, prote	einuria) and o	Jamage.
Signs and Symptoms of	Irritation as n	oted abov	e. Eye watering	, headach	ies, naus	sea, dizzines	s and loss
Exposure	of coordination	n are sigr	ns that exposure	levels are	e too high	า.	
Medical Conditions Generally	Preexisting e	ye, skin, a	and respiratory d	sorders m	hay be a	ggravated by	exposure
Aggravated by Exposure	to this produc	:t.					
Emergency and First Aid	Eye Contact	Immedia	ately flush eyes v	with plenty	/ of wate	r for 15 minu	tes while
Procedures	holding eyeli	ls open.	Get medical atte	ntion.			
	Skin Contac	: Remov	e contaminated	clothing/sl	hoes. W	ash with soa	p and
	water. Get m	edical atte	ention if irritation	develops	or persi	sts. Do not r	euse
	clothing until	cleaned.					
	Inhalation:	Remove v	ictim to fresh air	and provi	de oxyge	en if breathin	g is difficult.
	Give artificial	respiratio	if not breathing	). Get imr	nediate i	medical atter	ition.
	ingestion:	et medica	al attention imme	ediately. L		induce vomiti	ng. Give
	victim a glass	of water	or milk. Call a p	hysician o	r poison	control cente	ər
	immediately.	Never giv	ve anything by m	outh to ar	n uncons	cious persor	1.

# Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case	Warning – flammable. Eliminate all ignition sources. Handling equipment must
Material is Released or Spilled	be grounded to prevent sparking. Absorb spill with inert material (e.g. dry sand
	or earth), then place in a chemical waste container.
Waste Disposal Method	Dispose in accordance with all federal, state, and local regulations.
Precautions to Be Taken in	Keep away from heat, sparks, and flame. Do not store above 120°F (48°C).
Handling and Storing	Avoid breathing vapors. Avoid prolonged contact with skin. Wash thoroughly
	after handling. See Section IV.
Other Precautions	Vapors are heavier than air and will collect in low areas.

### **Section VIII – Control Measures**

Respiratory Protection (Specify Type)	If exposure may or does exceed occupational exposure limits (see section II), a NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge or canister may be permissible. Protection provided by air-purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Ventilation:	Use ventilation as required to maintain vapor concentrations below TLV.
Eye Protection	Wear safety glasses with side shields (or goggles) and a face shield.
Gloves and Other	Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and
<b>Protective Clothing</b>	chemical safety goggles plus a face shield.
Work/Hygienic Practices	Wash thoroughly before eating, drinking, using restroom, smoking, or applying cosmetics. Remove and air-dry contaminated clothing in a well-ventilated area, then wash before reusing. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may contain residues. Avoid repeated or prolonged contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing. Clean spills or overspray promptly – they may present a slippage hazard.