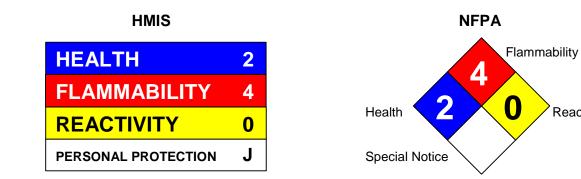


Reactivity

Material Safety Data Sheet



Section I – Product and Company Identification

Product Name/ Trade Name	Graphite Plus Aerosol		
Manufacturer	Cummings-Moore Graphite Co.	Emergency Phone	1-800-255-3924
	1646 N. Green Ave.	Information Phone	1-908-537-2155
	Detroit, MI 48209	Date Prepared	5/11/07
		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 20		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	2.5 mg/m ³	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	Evaporation Rate	>1
		(Butyl Acetate = 1)	
Solubility in Water	Negligible	Appearance and	Black liquid in aerosol package,
pH	n/a	Odor	alcohol odor

Graphite Plus Aerosol (Page 1 of 3)

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 ₂ , dry chemical, water fog					
Special Fire Fighting		essure if exposed to heat (fire). As in a				
Procedures	contained breathing apparatus pressure-demand (MSHA/NIOSH approved or					
	equivalent) and full protect	0				
Unusual Fire and		rce of ignition and flash back. "Empty"				
Explosion Hazards		l/or vapor) and can be dangerous. DO				
PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSI						
	SUCH CONTAINERS TO	HEAT, FLAME, SPARKS, STATIC ELE	ECTRICITY, OR			
	OTHER SOURCES OF IG	NITION; THEY MAY EXPLODE AND	CAUSE INJURY OR			
	DEATH. Empty drums she	ould be completely drained, properly bu	unged 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.
Hazardous Polymerization	Will not occur under normal conditions.

Section VI – Health Hazard Data

Route(s) of Entry: Inhalation?	Yes		Skin?	Yes		I	ngestion?	Yes	
Carcinogenicity:	NTP?	No	IAR	C Monog	graphs?	No	OSHA	Regulated?	No
Health Hazards	*** Em	ergenc	y Over	view ***	Vapors i	rritating	i to eyes a	nd respirator	y tract.
(Acute and Chronic)	Vapors	may ca	use fla	sh fire or	explosio	n.			
	Eye Co	ntact:	Liquid,	aerosols	, and vap	oors of t	this produc	ct are irritatin	g and can
	cause p	ain, tea	aring, re	eddening	and swe	lling ac	companied	d by a stingin	g sensation
				of fine d					
									and drying of
							natitis (rasl		
								lood pressur	
								to vapor or	skin
				inhalation					
							al if swalle		
	Chronic Effects: Overexposure may cause nervous system damage, lung								
								einuria) and	
Signs and Symptoms of								sea, dizzines	s and loss
Exposure							are too hig		
Medical Conditions Generally				and resp	iratory di	sorders	may be a	ggravated by	/ exposure
Aggravated by Exposure	to this p								
Emergency and First Aid							nty of wate	er for 15 minu	ites while
Procedures				Get med			,		
								ash with soa	
					irritation	develo	os or persi	ists. Do not i	reuse
	clothing								
						•		en if breathin	•
								medical atter	
								induce vomit	
								control cent	
	immedi	ately. N	vever g	ive anyth	ing by m	outh to	an uncons	scious persor	า.

Graphite Plus Aerosol (Page 2 of 3)

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	If exposure may or does exceed occupational exposure limits (see section II), a
Protection	NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge or canister
(Specify Type)	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
Protective Clothing	chemical safety goggles plus a face shield.
Work/Hygienic	Wash thoroughly before eating, drinking, using restroom, smoking, or applying cosmetics.
Practices	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.

Graphite Plus Aerosol (Page 3 of 3)