



Safety Data Sheet

Section 1 - Identification	n of the Substance/	Preparation, an	nd of the Compar	าง	
Product Identifier:		•	[WHMIS Classification]		•
AP Style # 6500			Not Listed		
Product Use:					
Gasketing					
Manufacturer's Name:		Supplier's Name			
Curtiss-Wright		Curtiss-Wrig	jht		
Street Address:		Street Address:			
18001 Sheldon Road		18001 Sheld	don Road		
City:	State:	City:		State:	
Middleburg Hts.	ОН	Middleburg	Hts.	ОН	
Postal Code:	Emergency Telephone:	Postal Code:	Emergenc	y Telephone:	
44130	+1.216.267.3200	44130	+1.216.	267.3200	
Date MSDS Prepared:	MSDS Prepar	red By:	Phone Num	iber:	
1/29/16	Raymond	Moody	+1.216.2	267.3200	

Section 2 –Composition/Information on Ingredients				
Hazardous Ingredients (specific)	%	CAS Number	OSHA PEL	ACGIH TLV
Natural Graphite	16.0-94.7%	7782-42-5	2.5mg/m ³	2.0 mg/m ³
Iron	3.6-55.8%	7439-89-6	10/mg/m ³	5mg/m ³
Nickel	0.6-10.1%	7440-02-0	1/mg/m ³	1/mg/m ³
Chromium	1.0-15.1%	7440-47-3	1/mg/m ³	0.5/mg ³
Molybdenum	0.1-2.10%	7439-98-7	10/mg/m ³	10/mg ³



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Section 3 -	Hazards Identif	ication				
Route of Entry:	Skin Contact			☐ Ingestion		
[Emergency Overv	iew]					
•	ation of graphite c	usts may be irritati	ng to the eyes, sl	kin, mucous membranes, and re	spiratory	
tract.						
[WHMIS Symbols]						
[VVI IIVIIO OYIIIDOIS]						
N/A						
[Potential Health H	azard]					
Eve - Eve cor	ntact may cause s	light chemical and	machanical irritat	ion		
Lyc - Lyc coi	nact may cause s	ignit chemical and	meenamea mitat	ion.		
Skin - Derma	l irritation and alle	aic skin reaction if	dust contacts ski	n for prolonged or repeated peri	ods. Mav	,
	on with resulting in				,	
	on man recomming m					
Inhalation - R	elease of large an	nounts of dust may	cause upper res	piratory tract irritation and dust r	elated lur	ng
disease.						
Ingestion – Lo	ow toxicity if inges	ted.				
	First Aid Measu	ires				
Skin Contact:						
Frequent was	shing will deter trai	nsitory chemical ar	nd mechanical der	rmatitis. If rash develops consult	a physici	ian
1 roquont was	ming will dotor trai	ionory oriormour an	ia moonamoar doi	mattie. Il raon develope concat	a priyotoi	1011.
Eye Contact:		-				
loo oo o di o t a la ca	ورد والأرد ومردو والمورد	stor for at least C	Janton Cook	dical attention is disconfort or and	ioto	
immediately v	wasn eyes with wa	iter for at least 5 m	inutes. Seek med	dical attention is discomfort persi	รเร.	

Inhalation:

Remove patient to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.

Ingestion:

Ingestion is not expected to be an important route into the body. If, however, the material is ingested, give 2 glasses of water and induce vomiting.



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Section 5 - Fire Fighting	Measures		
Flammable: If y	If yes, under what conditions?		
⊠ Yes □ No Bu	Bulk material is non-combustible. Dust are combustibleUse water, carbon dioxide,		
	dry chemical or foam		
M (5 c)			
Means of Extinction:			
Bulk material is non-combus	tible. Dusts are combustible-Use water	, carbon dioxide, dry chemical or foam.	
	. ,	A self-contained breathing apparatus,	
	ssure mode, and full firefighting protecti	ve clothing should be worn for combating	
fires.			
Flashpoint (°C) and Method:	Upper Flammable Limit (% by Volume):	Lower Flammable Limit (% by Volume):	
N/A	N/A	N/A	
IN/A	IV/A	IV/A	
Auto ignition Temperature (°C):	Explosion Data – Sensitivity to impact:	Explosion Data – Sensitivity to Static Discharge:	
N/A	N/A	Large concentrations of air-born	
		dust may produce a low power	
		explosion if ignited.	
Hazardous Combustion Products:			
•		oxides of carbon and low molecular weight	
organic compounds whose of	composition has not been characterized	1.	
[NFPA]:			
Health: 2; Flammability: 1; I	nstability: 0		
Troditi. 2 , Tranimasiity. 1 , 1	Tiotability: 0		
		1	
Section 6 – Accidental R	Release Measures		
Leak and Spill Procedures:			
As sheet Gasketing, product	t does not spill or create a release. Acc	cumulated dust may be vacuumed using a	
vacuum fitted with a HEPA f	ilter or wet mopped for cleanup.		
Section 7 – Handling and	d Storage		
Handling Procedures and Equipment:	- y -		
Avoid causing dust.			



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Storage Requirements:

Store in labeled, closed containers away from heat, spark, open flames, and other sources of ignition. Do not store with or near incompatible chemicals. Do not let containers of material accumulate in the workplace. Promptly clean up any spills of dust that may occur. Any dusts generated during handling or processing should be cleaned up by wet mopping or vacuuming with a unit which contains a HEPA filter. Dry sweeping can re-suspend particulate matter in the atmosphere.

Section 8 – Expos	sure Controls/P	ersonal Protection	1			
Exposure limits:	□ ACGIH TLV	⊠ OSHA PE	L [Other (specify)		
	are generated dur	ring processing or use			•	
the latest edition of "committee on "Indus	Industrial Ventilati trial Ventilation, P evaluated by a pi	Designed details for lo on: A manual of reco .O. Box 16153, Lansi rofessional industrial lengineer.	mmended prac ng, MI 48910.	ctices" publish The need for	ed by the ACGIH local exhaust	
Personal Protective Equipme		⊠ Respirator ⊠ Eye	☐ Footwear	⊠ clothing	⊠ other	
handling and storage	Protective gloves e. Work/Hygienic peated skin contact	are recommended to Practices All chemica ct. Appropriate eye al	ls should be ha	andles so as to	o prevent eye con	
1/2 face piece respir 0.05mg/m3. If exporespiratory protective	rator equipped with sure exceed 10 ting e equipment supp	limits by less than a formation that cartridges for particular mes the limit. Consult le for selection of the extermined by a profession.	ulate matter wit a professional proper equipm	th an exposure industrial hygi ent. The evalu	e limit of not less i ienist or your	than
Eye Protection - Promatter.	tection glasses w	ith side-shields should	d be worn to pro	event eye con	tact with particula	ate
Other Protective Cloare recommended.		nt - Where normal wong before reuse.	rk clothes may	become soile	ed by dusts, cover	alls



Section 9 - Physical and Chemical Properties

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Physical State:	Odor and Appearance:	Odor Threshold:	
Solid	Black Solid Shapes - Slight	Non-significant	
	Hydrocarbon		
Specific Gravity:	Vapor Density (air =1):	Vapor Pressure (mmHg):	
0.7-5.1	N/A	N/A	
Evaporation rate:	Boiling/melting Point (°C):	Freezing Point (°C):	
Evaporation rate.	Bolling/melting Foliti (C).	r reezing Foint (C).	
N/A	>1510°C	<1510°C	
pH:	Coefficient of Water / Oil Distribution:	[Solubility in Water]:	
7	N/A	Negligible	
	IVA	Negligible	
Section 10 - Stability and Rea	ctivity		
	under which conditions?		
_X_YesNo			
Incompatibility With Other Substances If yes,	which ones?		
_X_YesNo Strop			
_X_YesNo Strong oxidizing agents			
Reactivity and under what conditions:			
Condition to avoid – Incompatible m	naterials, excessive heat		
Hazardous Decomposition Product:			
Carbon monoxide, carbon dioxide			

Section 11 – Toxicological Information

Effects of Acute Exposure:

High concentration of graphite dusts may be irritating to the eyes, skin, mucous membranes, and respiratory tract

Effects of Chronic Exposure:

Chronic inhalation of high concentrations of graphite dusts over prolonged periods of time may cause pneumoconiosis. Symptoms can include cough, shortness of breath, and decrease in pulmonary function. Preexisting pulmonary disorders such as emphysema may possible be aggravated by prolonged exposure to high concentration of graphite dusts.



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Irritancy of Product: Relative Skin Sensitization: Relative Carcinogenicity – IARC: Not listed as Carcinogenic Reproductive Toxicity: No data available Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available [Optional, not required]	Respiratory Sensitization: Relative	
Relative Carcinogenicity – IARC: Not listed as Carcinogenic Reproductive Toxicity: No data available Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available		
Relative Carcinogenicity – IARC: Not listed as Carcinogenic Reproductive Toxicity: No data available Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available		
Carcinogenicity – IARC: Not listed as Carcinogenic Reproductive Toxicity: No data available Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available	Relative	
Not listed as Carcinogenic Reproductive Toxicity: No data available Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available		
Reproductive Toxicity: No data available Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available	Carcinogenicity – ACGIH:	
No data available Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available	Not listed as Carcinogenic	
Embryo toxicity: No data available Name of Synergistic Products / Effects: No data available	Teratogenicity:	
No data available Name of Synergistic Products / Effects: No data available	No data available	
Name of Synergistic Products / Effects: No data available	Mutagenicity:	
No data available	No data available	
[Optional_not_required		
[opuonal, not rodullou	under WHMIS]	
Section 12 – Ecological Information		
Aquatic Toxicity:		
No data available		
Section 13 – Disposal Considerations		
Waste Disposal:		•
Materials are generally not considered hazardous wast	e as defined under RCRA. However, since	waste
disposal laws vary within states and municipalities, disp	The state of the s	
local, state, and federal laws and regulations (contact lo	ocal or state environmental agencies for spe	ecific rules).
Section 14 – Transport Information		
Special Shipping Information:		
No special precautions necessary.		
		PIN
		NI/A
TDG:		N/A



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N/A	Not regulated
[IMO]	[ICAO]
N/A	N/A

[OSHA]			
Health: 2; Flammability: 1; Instability: 0			
[TSCA]			
No data available No data available			
the hazard criteria of the Controlled Products Regulations (CPR) and MSDS			
1			

Section 16 – Other Information

Use: The limitations of use decrease significantly as gasket thickness increases. Do not use a thicker gasket material or "double gaskets" to solve a gasket problem without first consulting the manufacturer. Curtiss-Wright engineers can advise on gasket selection and installation based on specified operating conditions. If you are in any doubt, visit our website at www.cwnuclear.com, fax us at 724-295-6201 or phone us at +1.216.267.3200.

All gaskets should be cut by trained personnel only. Incorrect cutting can produce weaknesses in a gasket that may not be visible, but could cause failure. Gasket installation should be carried out by trained personnel only.

The ability of a gasket material to make and maintain a seal depends not only on the quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled into the flanges and tightened.

The higher the operating pressure and/or temperature, the greater the care and expertise required in selecting and installing gaskets. This includes, but is not limited to: confirmation that the flanges are suitable for the intended use; the finish on the flange faces; the parallelism of the flange faces; confirmation that the studs, bolts, washers and nuts are suitable for the intended use and in good condition; no anti stick compound is applied to the flanges or gaskets; confirmation that the gasket material and thickness are suitable for the intended use; and the gasket is evenly loaded by the correct tightening sequence of the bolts or studs, and to the correct torque to give the required gasket assembly stress. The use of torque wrenches, hydraulic bolt tensioners or other loading devices can assist achievement of the correct gasket stress.

The application of release agents to the gasket or flanges may cause gasket failure.

Because conditions of use are beyond the manufacturer's control, it is the responsibility of the user to ensure



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that the product is suitable for the intended use.

WARNING: Catastrophic gasket failure can be caused by steam or water hammer. Steam or water hammer can cause an instantaneous increase in internal pressure on the assembly that far exceeds the design or test pressures. Where water hammer exists, the basic problem should be corrected. DO NOT USE AP MATERIAL IN APPLICATIONS WHERE WATER OR STEAM HAMMER MAY STRESS THE GASKET BEYOND ITS DESIGN TOLERANCES

The information above is believed to be accurate and represents the best information available to us. However, we make no warranty expressed or implied, with respect to such information, and we assume no liability resulting from its use.

[Optional, not required under WHMIS]