

Safety Data Sheet

Section 1 – Identification	n of the S	ubstance/P	reparation, ar			
Product Identifier:				[WHMIS Cla	ssification]	
AP Style # 7000				Not Liste	ed	
Product Use:						
Valve Packing						
Manufacturer's Name:			Supplier's Name	e:		
Curtiss-Wright			Curtiss-Wri	Curtiss-Wright		
Street Address:			Street Address:			
18001 Sheldon Road			18001 Shel	don Road		
City:		State:	City:			State:
Middleburg Hts.		ОН	Middleburg	Middleburg Hts.		ОН
Postal Code:	Emergency T	elephone:	Postal Code:	Postal Code: Emergency Tel		phone:
44130	+1.216.26	7.3200	44130		+1.216.267.	3200
Date MSDS Prepared:		MSDS Prepared	By:		Phone Number:	
1/29/16		Raymond M	Raymond Moody		+1.216.267.3200	
Section 2 –Composition	/Informat	ion on Ingre	edients			
Hazardous Ingredients (spec		%	CAS Number	08	SHA PEL	ACGIH TLV
Expanded natural purified gr	aphite	100% 7782-42-5		2.5	2.5 mg/m3 2.5 mg/m3	
Section 3 – Hazards Ider	ntification			'		
	bsorption/cont		Eye Contact	⊠ In	halation	
[Emergency Overview]						
High concentration of graphit tract.	te dusts ma	ay be irritating	g to the eyes, sk	in, mucou	s membranes	, and respiratory
[WHMIS Symbols]						
N/A						
[Potential Health Hazard]						



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Eye – Eye contact may cause slight chemical and mechanical irritation.

Skin - Dermal irritation and allergic skin reaction if dust contacts skin for prolonged or repeated periods. May cause abrasion with resulting irritation and rash.

Inhalation - Release of large amounts of dust may cause upper respiratory tract irritation and dust related lung disease.

Ingestion – Low toxicity if ingested.

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Section 4 – First Aid Measures	
Skin Contact:	
Frequent washing will deter transitory chemical and mechanical dermatitis. If rash develops consult a phy	/sician.
Eye Contact:	
Immediately wash eyes with water for at least 5 minutes. Seek medical attention is discomfort persists.	
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.	l ,
Ingestion:	
Ingestion is not expected to be an important route into the body. If, however, the material is ingested, give glasses of water and induce vomiting.	2

Section 5 – Fire Fight	ing Meası	ıres]
Flammable:		vhat conditions?		
⊠ Yes □ No		rial is non-combustible. Dust are com cal or foam	bustibleUse water, carbon did	oxide,
Means of Extinction:				
Bulk material is non-combustible. Dusts are combustible-Use water, carbon dioxide, dry chemical or foam. Material in or near fires should be cooled with a water spray or fog. A self-contained breathing apparatus, operating in the positive pressure mode, and full firefighting protective 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	
Auto ignition Temperature (°C):		Explosion Data – Sensitivity to impact:	Explosion Data – Sensitivity to Static Disc	charge:



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N/A	N/A		Large concentrations of air-born dust may produce a low power explosion if ignited.
Hazardous Combustion Produ	cts:		
-	on or combustion may pro-		des of carbon and low molecular weight
[NFPA]:			
Health: 1 ; Flammabili	ty: 0 ; Instability: 0		
Section 6 – Accide Leak and Spill Procedures:	ntal Release Measure	s	
	t does not spill or create a er or wet mopped for clea		dust may be vacuumed using a vacuum
Section 7 – Handli Handling Procedures and Equ	ng and Storage		
Avoid causing dust.			
Storage Requirements:			
store with or near inco Promptly clean up any should be cleaned up	empatible chemicals. Do repute spills of dust that may occur	not let containers of mat ccur. Any dusts generat ming with a unit which c	s, and other sources of ignition. Do not terial accumulate in the workplace. ted during handling or processing contains a HEPA filter. Dry sweeping
•	ure Controls/Personal		
Exposure limits:	⊠ ACGIH TLV	⊠ OSHA PEL	☐ Other (specify)
Specific Engineering Controls	(such as ventilation, enclosure prod	cess)	
maintain exposures be the latest edition of "Ir committee on "Industr ventilation should be e	elow the limits. Designed adustrial Ventilation: A mail all Ventilation, P.O. Box 1	details for local exhaus anual of recommended p 6153, Lansing, MI 4891 al industrial Hygienist. I	aust ventilation should be provided to t ventilation systems may be found in practices" published by the ACGIH 0. The need for local exhaust Local exhaust ventilation systems
Personal Protective Equipmen	t 🗵 Gloves 🗵 Respira	itor 🗵 Eye 🗌 Foo	twear 🗵 clothing 🗆 other



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If marked, please specify type:

Protective Gloves - Protective gloves are recommended to prevent cuts, abrasions, and irritation during handling and storage. Work/Hygienic Practices All chemicals should be handles so as to prevent eye contact and excessive or repeated skin contact. Appropriate eye and skin protection should be employed. Inhalation of dusts and vapors should be avoided.

Respiratory - If exposures exceed the limits by less than a factor of 10, use in a minimum a NIOSH approved 1/2 face piece respirator equipped with cartridges for particulate matter with an exposure limit of not less than 0.05mg/m3. If exposure exceed 10 times the limit. Consult a professional industrial hygienist or your respiratory protective equipment supple for selection of the proper equipment. The evaluation of the needed for respiratory protection should be determined by a professional industrial hygienist.

Eye Protection - Protection glasses with side-shields should be worn to prevent eye contact with particulate matter.

Other Protective Clothing or Equipment - Where normal work clothes may become soiled by dusts, coveralls are recommended. Wash solid clothing before reuse.

Section 9 - Physical and Chen	nical Properties	
Physical State:	Odor and Appearance:	Odor Threshold:
Solid	Black Solid Shapes - Slight Hydrocarbon	Non-significant
Specific Gravity:	Vapor Density (air =1):	Vapor Pressure (mmHg):
0.8-1.5	N/A	N/A
Evaporation rate:	Boiling/melting Point (°C):	Freezing Point (°C):
N/A	>2076°C	<2076°C
pH:	Coefficient of Water / Oil Distribution:	[Solubility in Water]:
7	N/A	Negligible

Section 10 - Stability and	d Reactivity	
Chemical Stability	If no, under which conditions?	
⊠ Yes □ No		
Incompatibility With Other Substances	If yes, which ones?	
⊠ Yes □ No	Strong oxidizing agents	
Condition to avoid – Incompa	tible materials, excessive heat	



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Reactivity and under what conditions:			
None Known			
Hazardous Decomposition Product:			
Carbon monoxide, carbon dioxide			
Section 11 – Toxicological Information			
Effects of Acute Exposure:	,		
High concentration of graphite dusts may be irritating to t tract	he eyes, skin, mucous membranes, and respiratory		
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. Pre-existing pulmonary disorders such as emphysema may possible be aggravated by prolonged exposure to high concentration of graphite dusts.			
Irritancy of Product:			
Relative			
Skin Sensitization:	Respiratory Sensitization:		
Relative	Relative		
Carcinogenicity – IARC:	Carcinogenicity – ACGIH:		
Not listed as Carcinogenic	Not listed as Carcinogenic		
Reproductive Toxicity:	Teratogenicity:		
No data available	No data available		
Embryo toxicity:	Mutagenicity:		
No data available	No data available		
Name of Synergistic Products / Effects:			
No data available			
[Optional, not required ur	nder WHMIS]		

Section 12 – Ecological Information



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Aquatic Toxicity:				
No data available				
0 (1 40 5)				
Section 13 – Disposal Considerations Waste Disposal:				
Materials are generally not considered hazardous waste as defined under RCRA. However, since waste disposal laws vary within states and municipalities, disposal of these products should be in accordance with all local, state, and federal laws and regulations (contact local or state environmental agencies for specific rules).				
Section 14 – Transport Information Special Shipping Information:				
No special precautions necessary.				
		PIN		
		N/A		
TDG:	[DOT]	<u>I</u>		
N/A	Not regulated			
[IMO]	[ICAO]			
N/A	N/A			
Section 15 – Regulatory Information				
[WHMIS Classification]	[OSHA]			
Not Classified	Health: 2 ; Flammability: 1 ; Instability: 0			
[SERA]	[TSCA]			
No data available	No data available			
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and MSDS contains all of the information required by CPR.				

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.



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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 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]