

Safety Data Sheet

Section 1 – Identification Product Identifier:	of the S	ubstance/F	Preparation, ar	nd of the [WHMIS Class	Company ssification]		
AP Style # 7010				Not Listed			
Product Use:							
Valve Packing							
Manufacturer's Name:			Supplier's Name	Supplier's Name:			
Curtiss-Wright			Curtiss-Wrig	Curtiss-Wright			
Street Address:			Street Address:	Street Address:			
18001 Sheldon Road			18001 Sheld	18001 Sheldon Road			
City:		State:	City:			State:	
Middleburg Hts.		ОН	Middleburg	Middleburg Hts.		ОН	
Postal Code:	Emergency T	elephone:	Postal Code:		Emergency Te	lephone:	
44130	+1.216.26	37.3200	44130	44130 +1.216.267.32		7.3200	
Date MSDS Prepared:		MSDS Prepare	d By:	Phone Number:			
1/29/16	Raymond Moo		Moody	+1.216		6.267.3200	
Section 2 –Composition	/Informat	ion on Ingr	redients				
Hazardous Ingredients (spe		%	CAS Number	OS	SHA PEL	ACGIH TLV	
Expanded natural purified graphite		100%	7782-42-5	2.5	mg/m3	2.5 mg/m3	
Carbon Yarn			7782-42-5				
Section 3 – Hazards Ider	ntification	1		1			
	bsorption/cont		⊠ Eye Contact	⊠ In	halation		
[Emergency Overview]							
High concentration of graphi	te dusts ma	ay be irritatin	g to the eyes, sk	in, mucou	s membrane	es, and respiratory	
tract.							
[WHMIS Symbols]							
N/A							



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[Potential Health Hazard] 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. Section 4 - First Aid Measures Skin Contact: Frequent washing will deter transitory chemical and mechanical dermatitis. If rash develops consult a physician. 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. 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. Section 5 – Fire Fighting Measures Flammable: If yes, under what conditions? Bulk material is non-combustible. Dust are combustible--Use water, carbon dioxide, ⊠ Yes □ No dry chemical or foam

Bulk material is non-combustible. Dust are combustible--Use water, carbon dioxide, dry chemical or foam 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): N/A N/A



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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:					
·	stion may produce dense smoke, on osition has not been characterized.	xides of carbon and low molecular weight			
[NFPA]:					
Health: 1 ; Flammability: 0 ; Instab	pility: 0				
Section 6 - Accidental Release Measures					

Leak and Spill Procedures:

As gasketing, product does not spill or create a release. Accumulated dust may be vacuumed using a vacuum fitted with a HEPA filter or wet mopped for cleanup.

Section 7 – Handling and Storage

Handling Procedures and Equipment:

Avoid causing dust.

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 – Exposure Controls/Personal Protection				
Exposure limits:	☐ ACGIH TLV	⊠ OSHA PEL	☐ Other (specify)	
Specific Engineering Contro	ols (such as ventilation, enclosure prod	ess)		

Ventilation - If dusts are generated during processing or use, local exhaust ventilation should be provided to maintain exposures below the limits. Designed details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A manual of recommended practices" published by the ACGIH committee on "Industrial Ventilation, P.O. Box 16153, Lansing, MI 48910. The need for local exhaust ventilation should be evaluated by a professional industrial Hygienist. Local exhaust ventilation systems should be designed by a professional engineer.



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Personal Protective Equipment	⊠ Respirator	⊠ Eye	☐ Footwear	⊠ clothing	☐ other
If marked, please specify type:					
Protective Gloves - Protective glove handling and storage. Work/Hygier and excessive or repeated skin cor of dusts and vapors should be avoid	nic Practices All on ntact. Appropriated.	chemicals sh se eye and sk	ould be hand in protection	lles so as to pi should be em	revent eye contact aployed. Inhalation
Respiratory - If exposures exceed to 1/2 face piece respirator equipped 0.05mg/m3. If exposure exceed 10 respiratory protective equipment suffor respiratory protection should be	with cartridges for times the limit. upple for selectio	or particulate Consult a pro n of the prop	matter with a ofessional income of the contraction	an exposure lind dustrial hygien t. The evaluati	mit of not less than ist or your
Eye Protection - Protection glasses matter.	s with side-shield	s should be	worn to preve	ent eye contac	t with particulate
Other Protective Clothing or Equipmare recommended. Wash solid clo			othes may be	ecome soiled b	y dusts, coveralls
Section 9 – Physical and Cher					
Physical State:	Odor and Appeara	ance:	(Odor Threshold:	
Solid	Black Solid S Hydrocarbon		nt I	Non-significan	t
Specific Gravity:	Vapor Density (air	=1):	V	apor Pressure (mm	ıHg):
0.8-1.5	N/A		N	N/A	
Evaporation rate:	Boiling/melting Poi	nt (°C):	F	reezing Point (°C):	
N/A	>2076°C		<	:2076°C	
pH:	Coefficient of Water	er / Oil Distribution	n: [S	Solubility in Water]:	
7	N/A		N	Negligible	
	•				
Section 10 – Stability and Rea Chemical Stability If no,		-2			
Chemical Stability If no, ☐ Yes ☐ No	under which conditions	5?			
Incompatibility With Other Substances If yes,	which ones?				_
	ng oxidizing age	nts			



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Condition to avoid – Incompatible materials, exces	sive heat
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 irritat tract	ing to the eyes, skin, mucous membranes, and respiratory
Effects of Chronic Exposure:	
pneumoconiosis. Symptoms can include cough, sl	te dusts over prolonged periods of time may cause hortness of breath, and decrease in pulmonary function. Premay possible be aggravated by prolonged exposure to high
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 under WHMIS]



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Section 12 – Ecological Information			
Aquatic Toxicity:			
No data available			
Section 13 – Disposal Considerations			
Waste Disposal:			
Materials are generally not considered hazardous wa	ste as defined under RCRA. However, since	waste	
disposal laws vary within states and municipalities, di			
local, state, and federal laws and regulations (contac	t local or state environmental agencies for sp	ecific rules	s).
Section 14 – Transport Information			
Special Shipping Information:			
No special precautions necessary.			
		PIN	
		N/A	
TDG:	[DOT]		
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 hazar contains all of the infe	rd criteria of the Controlled Products Regulations (CPR promation required by CPR.) and MSDS	;

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



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+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 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]