

Section 1 - Identification	n of the	Sı	ubstance/Pre	paratio	on, ar	nd of the	Company		
Product Identifier:				•	·	[WHMIS Class			
AP Style # 524						N/A			
Product Use:									
Valve Packing									
Manufacturer's Name:				Supplier	's Name	<b>:</b>			
Curtiss-Wright				Curtiss-Wright					
Street Address:				Street A	ddress:				
18001 Sheldon Road				18001	Shel	don Road			
City:	City:			City:			State:		
Middleburg Hts.			ОН	Middleburg Hts.			ОН		
Postal Code:	Emergency	у Те	elephone:	Postal C	ode:		Emergency Te	lephone:	
44130	+1.216.	267	7.3200	44130	)		+1.216.267	7.3200	
Date MSDS Prepared:			MSDS Prepared By:				Phone Number:		
3/3/2016		Raymond Moody			+1.216.267.3200				
Section 2 –Composition	/Informa	ati	on on Ingred	ients					
Hazardous Ingredients (specific)	(	%	CAS Numbe	er	OSF	IA PEL		ACGIH TLV	
Rayon Based Heated Treate Continuous Filament Yarn	ed >9	0%	7782-42-5						
Graphite Powder	<7	%	7782-42-5						
Povidone	<1	%	9003-39-8						
Polyethylene Glycol	<1	%	25332-68-3						
Barium Molybdate B <sub>2</sub> M <sub>0</sub> O <sub>4</sub>	<1	%	7787-37-3		LD5	4GM		LD5 4GM	



Section 3 –	Hazards Identifica	ation			·
Route of Entry:		⊠ Eye Contact			
[Emergency Overvie	ew]				
Acute barium i	ntoxication if > 100	gm ingested. Relea	ase of large amou	unts of dust may cause	e upper respiratory
				rgic skin reaction if dus	
	•			ulates. Avoid Creating	
	ay cause permanen		more and partie	alateer / tvela ereating	adda 2. daamiig
[WHMIS Symbols]					
N/A					
[Potential Health Ha	izard]				
Eye – Eye con	tact may cause sligh	nt chemical and me	echanical irritation	n.	
Skin - Dermal	irritation and allergic	skin reaction if du	ust contacts skin	for prolonged or repea	ted periods. May
cause abrasio	n with resulting irrita	tion and rash.			
Inhalation - Re	elease of large amou	unts of dust may ca	ause upper respir	ratory tract irritation an	d dust related lung
disease (fibros	sis).				
Ingestion – Ac	cute barium intoxicat	ion if > 100 gm ing	jested.		
[Other Hazard]					
This material i	s electrically conduc	ctive and accumula	ted yarn fibers co	ould cause electrical s	norting
Section 4 –	First Aid Measure	ne .			
Skin Contact:	riist Alu Measure	: <b>3</b>			
Frequent was	hing will deter transi	tory chemical and	mechanical derm	atitis. If rash develops	consult a physician
Eye Contact:					
Immediately w	vash eyes with wate	r for at least 5 minu	utes. Seek medic	al attention is discomf	ort persists.
Inhalation:					
Remove patier	nt to fresh air. Seek	medical attention.			
Ingestion:					
Acute barium i	ntoxication if > 100	gm ingested. For ir	ngestion drink 15	0 ml of 2% sodium sul	fate solution.



Section 5 – Fire Fighting Measures				
Flammable:	If yes, under what conditions?			
☐ Yes   ⊠ No	Does not support combustion			
Means of Extinction:				
Use water, DRY chemica adequate personal protect	•	Compatible with surrounding material. Use		
Flashpoint (°C) and Method:	Flashpoint (°C) and Method:	Flashpoint (°C) and Method:		
No data	No data	No data		
Auto ignition Temperature (°C):	Auto ignition Temperature (°C):	Auto ignition Temperature (°C):		
No data	No data	No data		
Hazardous Combustion Products:				
fumes.	n dioxide, and other toxic Gasses Extrer	mely high temperatures may release toxic		
[NFPA]:				
N/A				
Section 6 – Accidenta	al Release Measures			
Leak and Spill Procedures:				
As Valve Packing, produ	ct does not spill or create a release. Acc	umulated dust may be vacuumed using a		
vacuum fitted with a HEPA filter or wet mopped for cleanup.				
Section 7 – Handling				
Handling Procedures and Equipm	ent:			
In normal handling of sheet and gaskets, no significant release of dust occurs.				
Storage Requirements:				
While there are no hazards associated with storage we recommend the following storage conditions.				
Storage temperature below 75°F				
Humidity between 50% -	Humidity between 50% - 60%			
Darkened storage room				



## **Safety Data Sheet**

If these conditions are met, a useful life of 5 years can be expected.

Section 8 – Exposu	re Controls/P	ersonal Protection	
Exposure limits:	☑ ACGIH TLV	⊠ OSHA PEL	☐ Other (specify)
Specific Engineering Controls (	such as ventilation, er	nclosure process)	
opeome ingineering control (	ouer de vermaneri, e.		
Ventilation needed only	y for dust-produ	cing activities. Local exhaust	may be necessary for some applications.
Personal Protective Equipment	⊠ Gloves	□ Respirator    □ Eye	☐ Footwear ☐ clothing ☐ other
If marked, please specify type:			
Skin protection - For h	rief contact no	precautions other than clean	body-covering clothing should be needed.
			otective clothing and gloves such as butyl
rubber to prevent skin			declive clothing and gloves such as butyl
rubber to prevent skin	imation and de	illiauus.	
Respiratory Protection	- Respiratory p	rotection is not required unde	er normal processing of sheet gaskets.
•			inding, pile driving, sanding, etc.) are
	•		ors or positive pressure, self-contained
•			ed. In confined or poorly ventilated areas,
use approved SCBA of		,	, , , , , , , , , , , , , , , , , , , ,
11			
Eye Protection – Safe	ty glasses are re	ecommended when dust-emi	tting activates occur.
Continu O Dhymin	al and Obamia	al Dravartica	
Section 9 – Physica Physical State:	ai and Chemic	Odor and Appearance:	Odor Threshold:
		Cuoi and Appoarance.	out mission.
Solid		No odor, Shiny black yarn	Not relevant
Specific Gravity:		Vapor Density (air =1):	Vapor Pressure (mmHg):
Specific Gravity.		vapor bensity (air =1).	vapor i ressure (mining).
1.52		N/A	N/A
Evaporation rate:		Boiling Point (°C):	Freezing Point (°C):
·		. ,	
N/A		N/A	N/A
pH:		Coefficient of Water / Oil Distribution:	[Solubility in Water]:
N/A		N/A	% by weight $B_2M_0O_4 = 0.5$



Section 10 –	Stability and					
Chemical Stability		If no, under which conditions?				
⊠ Yes	□ No					
Incompatibility With 0	Other Substances	If yes, which ones?				
⊠ Yes	□ No	Strong oxidizers, strong Acids and bases				
(Conditions to a decomposition.		en flame, welding arcs, or hig	th temperature sources which induce thermal			
Reactivity and under	what conditions:					
(Specific mater cause premature	•		Acids and bases. Exposure to these chemicals	s may		
Hazardous Decompo	osition Product:					
Carbon dioxide fumes.	e, carbon mono	xide, and hydrogen fluoride E	extremely high temperatures may release toxic	:		
				1		
Section 11 –  Effects of Acute Exp		I Information				
Effects of Acute Exp	osure					
		y divided powder or dust may	be harmful.			
Effects of Chronic Ex	xposure:					
Contains fibers and particulates. Avoid Creating dust. Breathing Gasket dust may cause permanent lung damage.						
Irritancy of Product:						
Relative						
Skin Sensitization:			Respiratory Sensitization:			
Relative			Relative			
Carcinogenicity - IAF	RC:		Carcinogenicity – ACGIH:			
Not listed as Ca	arcinogenic		Not listed as Carcinogenic			
Reproductive Toxicity	y:		Teratogenicity:			
No data availa	ble		No data available			
Embryo toxicity:			Mutagenicity:			



3	parety Data Sneet	
No data available	No data available	
Name of Synergistic Products / Effects:		
No data available		
[Optional,	not required under WHMIS]	
Section 12 – Ecological Information  Aquatic Toxicity:		
No data available		
Section 13 – Disposal Considerations	S S	
Waste Disposal:	=	
vary within states and municipalities, dispos	waste as defined under RCRA. However, since waste dispossal of these products should be in accordance with all local, ocal or state environmental agencies for specific rules).	
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 regulated	Not regulated	
[SERA]	[TSCA]	
Not regulated	Not regulated	



## **Safety Data Sheet**

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 <a href="www.cwnuclear.com">www.cwnuclear.com</a>, 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 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]