

# **Safety Data Sheet**

Section 1 - Identification	of the Su	ubstance/Pre	paration, an	nd of the	Company		
Product Identifier:			_	[WHMIS Class	ssification]	<u>.</u>	
AP Style # 6300R & 6300E				Not Liste	d		
Product Use:							
Gasketing							
Manufacturer's Name:			Supplier's Name	):			
Curtiss-Wright		Curtiss-Wright					
Street Address:			Street Address:				
18001 Sheldon Road		18001 Sheld	don Road				
City:	State:		City:			State:	
Middleburg Hts.		Middleburg	Hts.		ОН		
Postal Code:	Emergency Telephone:		Postal Code:		Emergency Teleph	hone:	
44130	+1.216.267.3200		44130		+1.216.267.3200		
Date MSDS Prepared: MSDS Prepared By:		<i>'</i> :		Phone Number:			
1/29/16 Raymond Moo		ody		+1.216.267.32	200		

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 <sup>3</sup>	2.0 mg/m <sup>3</sup>	
Iron	3.6-55.8%	7439-89-6	10/mg/m <sup>3</sup>	5mg/m <sup>3</sup>	
Nickel	0.6-10.1%	7440-02-0	1/mg/m <sup>3</sup>	1/mg/m <sup>3</sup>	
Chromium	1.0-15.1%	7440-47-3	1/mg/m <sup>3</sup>	0.5/mg <sup>3</sup>	
Molybdenum	0.1-2.10%	7439-98-7	10/mg/m <sup>3</sup>	10/mg <sup>3</sup>	



# **Safety Data Sheet**

Section 3 -	Hazards Identif	fication				
Route of Entry:	Skin Contact	⊠ Eye Contact				
[Emergency Overv	view]					
High concent	ration of graphite of	dusts may be irritat	ing to the eyes, s	kin, mucous membranes	, and respirat	ory
tract.						
[WHMIS Symbols]						
N/A						
[Potential Health H	lazard]					
Eye – Eye co	ntact may cause s	slight chemical and	mechanical irritat	tion.		
Skin - Derma	al irritation and alle	rgic skin reaction if	dust contacts sk	in for prolonged or repea	ted periods. I	May
cause abrasi	on with resulting ir	ritation and rash.				
Inhalation - F	Release of large ar	nounts of dust may	cause upper res	piratory tract irritation an	d dust related	d lung
disease.						
Ingestion – L	ow toxicity if inges	sted.				
						<del></del>
	First Aid Meas	ures				
Skin Contact:						
Frequent was	shing will deter tra	nsitory chemical ar	nd mechanical de	rmatitis. If rash develops	consult a phy	ysician
Eye Contact:						
Immediately	wash eyes with wa	ater for at least 5 m	ninutes. Seek me	dical attention is discomf	ort persists.	
Inhalation:						
•		preathing is difficult, tarted immediately.		administered. If breathing tention.	has stopped נ	d,
Ingestion:						
Ingestion is n	ot expected to be	an important route	into the body. If,	however, the material is	ingested, give	e 2

glasses of water and induce vomiting.



# **Safety Data Sheet**

Section 5 – Fire Fighting Measures					
Flammable:	If yes, under what conditions?				
⊠ Yes □ No	Bulk mate	Bulk material is non-combustible. Dust are combustibleUse water, carbon dioxide,			
⊠ Yes □ NO		dry chemical or foam			
Means of Extinction:					
Bulk material is non-comb	bustible. Du	usts are combustible-Use water, carbo	on dioxide, dry chemical or foam	ı.	
Material in or near fires sl	hould be co	poled with a water spray or fog. A self	f-contained breathing apparatus	,	
operating in the positive p	oressure m	ode, and full firefighting protective clo	thing should be worn for combat	ing	
fires.					
Flashpoint (°C) and Method:		Upper Flammable Limit (% by Volume):	Lower Flammable Limit (% by Volume):		
Triadripoliti ( O) and Method.		opport familiable Ellink (70 by voidino).	Lower Flammable Limit (70 by Volume).		
N/A		N/A	N/A		
Auto ignition Temperature (°C):		Explosion Data – Sensitivity to impact:	Explosion Data – Sensitivity to Static Disc	:harge:	
N/A		N/A	Large concentrations of air-bo		
dust may produce a low			ſ		
			explosion if ignited.		
Hazardous Combustion Products:		L	ı		
Thermal decomposition of	or combusti	on may produce dense smoke, oxides	s of carbon and low molecular w	eiaht	
•			of carbon and low molecular w	Signi	
organic compounds whose composition has not been characterized.					
[NFPA]:					
Health: 2; Flammability:	1 ; Instabilit	y: 0			
,					
Section 6 – Accidental Release Measures					
Leak and Spill Procedures:					
As sheet 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.					
Avoid causing dust.					



## **Safety Data Sheet**

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/F	Personal Prot	tection				
Exposure limits:	⊠ ACGIH TLV	$\boxtimes$	OSHA PEL		Other (specify)		
Specific Engineering Contro	ls (such as ventilation, e	nclosure process)					
Ventilation - If dusts maintain exposures the latest edition of " committee on "Indus ventilation should be should be designed	below the limits. Industrial Ventilat trial Ventilation, Pervaluated by a p	Designed detai ion: A manual P.O. Box 16153 rofessional ind	ls for loca of recomi , Lansing	l exhaust ver mended prac , MI 48910.	ntilation syste tices" publis The need for	ems may be found hed by the ACGIH local exhaust	l in
Personal Protective Equipm	ent 🗵 Gloves	Respirator	⊠ Eye	Footwear	⊠ clothing	⊠ other	
If marked, please specify ty  Protective Gloves - handling and storag and excessive or re of dusts and vapors	Protective gloves e. Work/Hygienic peated skin conta	Practices All cl	hemicals	should be ha	ndles so as	to prevent eye con	
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 - Promatter.	tection glasses w	rith side-shields	s should b	e worn to pre	event eye co	ntact with particula	ate
Other Protective Cloare recommended.				clothes may	become soil	ed by dusts, cover	alls



## **Safety Data Sheet**

Section 9 – Physical and Chemical 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):	
0.7-5.1		N/A	N/A	
Evaporation rate:		Boiling/melting Point (°C):	Freezing Point (°C):	
N/A		>1510°C	<1510°C	
pH:		Coefficient of Water / Oil Distribution:	[Solubility in Water]:	
7		N/A	Negligible	
Section 10 – Stability and	l Reac	tivitv		
Chemical Stability	If no, under which conditions?			
_X_YesNo				
Incompatibility With Other Substances	If yes, which ones?			
_X_YesNo	Strong oxidizing agents			
Reactivity and under what conditions:	1			
Condition to avoid – Incompa	tible ma	iterials, excessive heat		
Hazardous Decomposition Product:				

#### Section 11 – Toxicological Information

Carbon monoxide, carbon dioxide

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.



# **Safety Data Sheet**

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

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				

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="https://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



## **Safety Data Sheet**

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]