

Section 1 - Identificatio	n of the Substanc	e/Preparation, ar	nd of the Compa	ny	
Product Identifier:	-	[WHMIS Classification]	-		
AP Style # 300		N/A			
Product Use:					
Gasketing					
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 Shel	18001 Sheldon Road		
City:	State:	City:	City: State:		
Middleburg Hts.		Middleburg	Hts.	ОН	
Postal Code:	Emergency Telephone:	Postal Code:	Emergend	cy Telephone:	
16229	+1.216.267.3200		+1.216	+1.216.267.3200	
Date MSDS Prepared: MSDS Prepare		pared By:	By: Phone Number:		
1/26/16 R:		d Moody	+1.216.267.3200		
			,		

Section 2 –Composition/Information on Ingredients					
Hazardous Ingredients (specific)	%	CAS Number	OSHA PEL	ACGIH TLV	
Amorphous Silica	1-20%	7631-86-9	20 mppcf	10 mg/m ³	
Aluminum Silicate	10-40%	1335-30-4	NE	10 mg/m ³	
Carbon Black	1-10%	1333-86-4	3.5 mg/m ³	3.5 mg/m ³	
Aramid Fiber	1-15%	26125-61-1	NE	NE	
Carbon\Fibers	15-35%	70892-43-2	15 mg/m3	10 mg/m ³	



Section 3 – Hazards Identification

Middleburg Hts., OH

Route of Entry:	⊠ Skin Absorption/contact	⊠ Eye Contact		
[Emergency Overview]				
Dermal irritation nitrile-based rub	e amounts of dust may cause and allergic skin reaction if du ber products produce toxic ga oid Creating dust. Breathing G	st contacts skin for proses such as hydrogen	olonged or repeated p cyanide. WARNING:	periods. Burning of Contains fibers and
[WHMIS Symbols]				
N/A				
[Potential Health Haza	rd]			
Eye – Eye conta	ct may cause slight chemical	and mechanical irritati	on.	
	ritation and allergic skin reaction with resulting irritation and ras		n for prolonged or rep	eated periods. May
Inhalation - Reledence disease (fibrosis	ease of large amounts of dust s).	may cause upper resp	piratory tract irritation a	and dust related lung
Ingestion – Low	toxicity if ingested.			
	rst Aid Measures			
Skin Contact:				
Frequent washir	ng will deter transitory chemica	al and mechanical der	matitis. If rash develop	ps consult a physician
Eye Contact:				
Immediately was	sh eyes with water for at least	5 minutes. Seek med	lical attention is discor	mfort persists.
Inhalation:				
Remove patient	to fresh air. Seek medical atte	ntion.		
Ingestion:				
Induce vomiting	and seek medical attention.			



Section 5 – Fire Fighting Measures				
Flammable:				
⊠ Yes □ No	Heat Flam	Heat Flame		
Means of Extinction:				
Use DRY chemical, carbo	on dioxide,	foam, or water spray. Use adequate	personal protective equipment.	
Flashpoint (°C) and Method:		Upper Flammable Limit (% by Volume):	Lower Flammable Limit (% by Volume):	
Does not Flash		N/A N/A		
Auto ignition Temperature (°C):		Explosion Data – Sensitivity to impact:	Explosion Data – Sensitivity to Static Discharge:	
N/A	N/A Small explosive if ground to f powder.		Small explosive if ground to fine powder.	
Hazardous Combustion Products:				
Carbon monoxide, hydrog carbon dioxide.	gen cyanide	e, ammonia, aldehydes, aliphatic hyd	drocarbons, nitrogen dioxides, and	
[NFPA]:				
Not available				
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:				
In normal handing of sheet and gaskets, no significant release of dust occurs.				
More information on proper gasket handling and installation is under section 16 of this document.				
Storage Requirements:				
While there are no hazards associated with storage we recommend the following storage conditions.				
Storage temperature below 75°F				



Humidity between 50% - 60%					
Darkened storage room					
If these conditions are met, a useful I	ife of 5 years can be expected.				
Section 8 – Exposure Controls/	Personal Protection				
Exposure limits:	TLV SHA PEL	☐ Other (specify)			
Specific Engineering Controls (such as ventilation, or	enclosure process)				
Ventilation needed only for dust-produ	ucing activities. Local exhaust may be	necessary for some applications.			
Personal Protective Equipment	⊠ Respirator ⊠ Eye □ Footwear	⊠ clothing □ other			
If marked, please specify type:					
When prolonged or frequent repeated	Skin protection - For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or frequent repeated contact could occur, use protective clothing and gloves such as butyl rubber to prevent skin irritation and dermatitis.				
Respiratory Protection - Respiratory protection is not required under normal processing of sheet gaskets. Respiratory protection is required when dust-emitting activates (grinding, pile driving, sanding, etc.) are performed. Use only NIOSH/MSHA approved air-purifying respirators or positive pressure, self-contained breathing apparatus when exposure guidelines are greatly exceeded. In confined or poorly ventilated areas, use approved SCBA device.					
Eye Protection – Safety glasses are recommended when dust-emitting activates occur.					
,					
Section 9 – Physical and Chemi					
Physical State:	Odor and Appearance:	Odor Threshold:			
Solid	Slight aromatic odor Rubber-like consistency Black	N/A			
Specific Gravity:	Vapor Density (air =1):	Vapor Pressure (mmHg):			
1.8 g/cc	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]:			



not relevant	Not relevant		Insoluble	
Section 10 – Stability and Chemical Stability	on 10 – Stability and Reactivity			
Chemical Stability	If no, under which conditions?			
⊠ Yes □ No				
Incompatibility With Other Substances	If yes, which ones?	f yes, which ones?		
⊠ Yes □ No	Strong oxidizers, strong Acids and bases			
(Conditions to avoid) Avoid op	en flame, welding arcs, or high	gh temperature s	ources which induce thermal	
decomposition.				
Reactivity and under what conditions:				
(Specific materials to avoid) Av	void strong oxidizers, strong	Acids and bases	. Exposure to these chemicals may	
cause premature product dege	_			
Hazardous Decomposition Product:				
are emitted when material is o		litrogen oxides, a	romatic and aliphatic hydrocarbons	
are emitted when material is o	ombusteu.			
Hazardous Polymerization:				
Will not occur				
Section 11 – Toxicological Information Effects of Acute Exposure:				
Inhalation or ingestion of finely divided powder or dust may be harmful.				
Effects of Chronic Exposure:				
Contains fibers and particulates. Avoid Creating dust. Breathing Gasket dust may cause permanent lung				
damage.				
Irritancy of Product:				
Relative				
Skin Sensitization:		Respiratory Sensitiza	ition:	
Relative		Relative		
Carcinogenicity – IARC:	Carcinogenicity – ACGIH:			
caromogoniony izito.		Salomogornous – Ac		



See below	See below			
Reproductive Toxicity:	Teratogenicity:			
No data available	No data available			
Embryo toxicity:	Mutagenicity:			
No data available	No data available			
Name of Synergistic Products / Effects:				
Carcinogenicity:				
Carbon black is listed by IARG as a Group 2B or a <i>possible</i> human carcinogen. Neither NTP nor OSHA list carbon black as a human carcinogen whereas NIOSH recommends that only carbon blacks with PAH levels greater than 0. 1% be considered suspect carcinogens. Gasket materials are not believed to be a cancer risk to humans when handled as recommended.				
[Optional, not required und	er WHMIS]			
Section 12 – Ecological Information				
Aquatic Toxicity:				
No data available				
Components of sheet Gasketing are essentially non-biodegradable in the environment. No studies have been				
performed on end gasket products, however.				
Section 13 – Disposal Considerations Waste Disposal:				
Magnesium oxide (D003 – reactivity) is listed as an EPA Hazardous waste. It is used, however in very small amounts (<1%). Sheet gasket materials are generally <i>not</i> 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		



Safety Data Sheet

TDG:	[DOT]
N/A	Not regulated
[IMO]	[ICAO]
N/A	N/A

Section 15 – Regulatory Information

[WHMIS Classification]	[OSHA]
Not Classified	Health 1; Flammability 0; Reactivity 0
[SARA] Title III	[TSCA]
302/304 Zinc (<1%), a component of this product is listed. 311/312 Acute, delayed health hazard. 313/372 Contains no Section 313 notification chemicals at or above the <i>de minims</i> consideration.	Components of this product are listed under TSCA Chemical Substance Inventory.

Exposure Limits:

The aramid fiber manufacture recommends that airborne fibril levels should not exceed 2 fibrils/cc (8-hour TWA, respirable) or 5 mg/m³ (total dust).

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

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.



Safety Data Sheet

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]