

# Safety Data Sheet

Middleburg Hts., OH

Section 1 – Identification of the Substance/Preparation, and of the Company						
Product Identifier:				[WHMIS Clas	ssification]	
AP Style #441				N/A		
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.		ОН	Middleburg	Hts.		ОН
Postal Code:	Emergency Te	elephone:	Postal Code:		Emergency Teleph	none:
44130	+1.216.26	7.3200	44130		+1.216.267.3	200
Date MSDS Prepared: MSDS Prepared B		:		Phone Number:		
2/1/16		Raymond Moc	ody		+1.216.267.32	200

Section 2 –Composition/Information on Ingredients				
Hazardous Ingredients (specific)	%	CAS Number	OSHA PEL	ACGIH TLV
Material is considered non hazardous				

Section 3 – Ha	azards Identification				
Route of Entry:	Skin Absorption/contact	🛛 Eye Contact	$\boxtimes$ Inhalation	$\boxtimes$ Ingestion	
[Emergency Overview]	]				
Dermal irritation	e amounts of dust may cause and allergic skin reaction if du and particulates. Avoid Creatir	ist contacts skin for pro	olonged or repeated	periods. WARNIN	



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damage.
[WHMIS Symbols]
N/A
[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 (fibrosis).
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. Seek medical attention.

Ingestion:

Induce vomiting and seek medical attention.

Section 5 – Fire Fight	ting Measures
Flammable:	If yes, under what conditions?
🛛 Yes 🗌 No	Direct flame
Means of Extinction:	·
Use water, DRY chemica	Il, carbon dioxide, foam, or water spray. Use adequate personal protective equipment
Flashpoint (°C) and Method:	Upper Flammable Limit (% by Volume): Lower Flammable Limit (% by Volume):



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> 300°C	N/A	N/A
Auto ignition Temperature (°C):	Explosion Data – Sensitivity to impact:	Explosion Data – Sensitivity to Static Discharge:
Auto ignition remperature (°C).	Explosion Data – Sensitivity to impact.	Explosion Data – Gensitivity to Static Discharge.
N/A	N/A	N/A
Hazardous Combustion Products:		
Carbon monoxide, Carbon dioxid	le, Hydrogen Chloride, Hydrogencyar	nide, Aliphatics, other possible

[NFPA]:

N/A

#### 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 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% - 60%

Darkened storage room

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

Section 8 – Exposure Controls/Personal Protection			
Exposure limits:	□ ACGIH TLV		□ Other (specify)
specific Engineering Controls (such as ventilation, enclosure process) Ventilation needed only for dust-producing activities. Local exhaust may be necessary for some applications.			
Personal Protective Equipm	ent ACGIH TLV		Other (specify)

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If marked, please specify type:

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 Chemical Properties			
Physical State:	Odor and Appearance:	Odor Threshold:	
Solid	Slight odor Brown/Black Color	Not relevant	
Specific Gravity:	Vapor Density (air =1):	Vapor Pressure (mmHg):	
No data	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	Insoluble	

Section 10 – Stability and	I Reactivity		
Chemical Stability	If no, under which conditions?		
🛛 Yes 🗌 No			
Incompatibility With Other Substances	If yes, which ones?		
🛛 Yes 🗌 No	Strong oxidizers, strong Acids and bases		
Conditions to avoid) Avoid op	en flame, welding arcs, or high temperature sources which induce thermal		
decomposition.			
Reactivity and under what conditions:			
(Specific materials to avoid) Avoid strong oxidizers, strong Acids and bases. Exposure to these chemicals may			



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cause premature product degeneration.

Hazardous Decomposition Product:

Carbon dioxide, carbon monoxide Hydrogen Chloride, Hydrogen cyanide, Aliphatics, and others possible

Section 11 – Toxicological Inf	ormation			
Effects of Acute Exposure:				
Inhalation or ingestion of finely divided powder or dust may be harmful.				
Effects of Chronic Exposure:				
Contains fibers and particulates. A damage.	void Creating dust. Breathing Gasket dust may cause permanent lung			
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]			

#### Section 12 – Ecological Information

Aquatic Toxicity:

No data available



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#### Section 13 – Disposal Considerations

Waste Disposal:

Sheet gasket materials are *not* 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]	
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	
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and MS		
contains all of the info	ormation 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 <u>www.cwnuclear.com</u>, 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.

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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]