

## MATERIAL SAFETY DATA

### MEGGITT AIRCRAFT BRAKING SYSTEMS CORPORATION

1204 Massillon Road Akron, OH 44306-4186

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 CHEMTREC CHEMICAL TRANSPORTATION EMERGENCY TELEPHONE NO: (800) 424-9300  
 DISTRICT OF COLUMBIA: (202) 483-7616  
 MEGGITT ABSC EMERGENCY TELEPHONE NO: (330) 796-3611  
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**Trade Name:** Steel Brake Component with Tri-Metalic Friction Material

CAS No.: NA

Chemical Name: NA

Synonyms: Rotating Steel disk with bonded friction material.

Part No.: 90002241 and 90002245

Contract No.: NA

SPEC:

NSN No.: NA

FSCM:

### 1. HAZARDOUS INGREDIENTS -- Friction Media

Item:	<u>1</u>	<u>2</u>
Material:	Copper	Iron
% by Wgt:	50-55	15-20
Synonym:		
NIOSH #:	GL53250000	N068510000
CAS #:	7440-50-8	N/A
Symbol:	Cu	Fe
ACGIH (TLV):	Copper (dust) = 1 mg/M3	Iron Oxide (dust) = 5 mg/M3
OSHA (PEL):	Copper (dust) = 1 mg/M3	Iron Oxide (fume) = 10 mg/M3
SARA Sec.	313	313
Reportable:	No	No
Item:	<u>3</u>	<u>4</u>
Material:	Silica	Graphite
% by Wgt:	5-10	1-5
Synonym:	Quartz	
NIOSH #:	VV7330000	VV7780000
CAS #:	14808-60-7	7782-42-5
Symbol:	SiO2	C
ACGIH (TLV):	0.1 mg/M3 (resp. dust)	5 mg/M3 (resp. dust)
OSHA (PEL):	10 mg/M3	10 mg/M3 (total dust)

	SiO <sub>2</sub> + 2	
SARA Sec.	313	313
Reportable:	No	No

## 2. PHYSICAL DATA

Appearance: Solid	Melt Point: NA
Vapor Density: NA	Bulk Density: NA
Vapor Pressure: NA	Specific Gravity: NE
Odor: NA	Boiling Point: NA
% Volatiles by Volume: 0	pH: NA
Solubility: Insoluble in Water	

## 3. FIRE AND EXPLOSION HAZARD DATA

	<b><u>NFPA Diamond</u></b>
Flash Point & Method: NA	Health: 1
LEL: NA	Flammability: 0
UEL: NA	Reactivity: 0
(as): NA	Additional:
<u>Extinguishing Media:</u> NA	
<u>Unusual Fire and Explosion Hazards:</u> NE	

## 4. PHYSIOLOGICAL EFFECTS

Primary Route(s) of Exposure: Inhalation of dust generated by abrasion

**Effects of Overexposure:**

Acute: Inhalation of iron and copper dust generated by abrasion may result in symptoms similar to those of the common cold. Eye contact may cause irritation and discoloration of the eye.

Chronic: Chronic overexposure to airborne dust from abrasion may result in decreased pulmonary function leading to mixed-dust pneumoconiosis.

Note that the benign pneumoconiosis that may result from overexposure to iron dust is known to mimic silicosis in the x-ray changes observed.

Chronic exposures to copper dust may cause nausea, diarrhea and vomiting. Repeated skin contact by copper dust may result in skin irritation and discoloration.

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## 5. EMERGENCY AND FIRST AID PROCEDURES

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Inhalation: Remove to fresh air. Get medical attention.

Eye Contact: Flush eyes with water being sure to lift upper and lower lids. Get medical attention immediately.

Skin Contact: Wash affected areas. If irritation persists, see a physician.

Ingestion:

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## 6. PHYSICAL HAZARDS

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NA

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## 7. SPECIAL PROTECTION INFORMATION

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Ventilation: When abrasion occurs to create dust, provide ventilation as Necessary to maintain levels below the LTV's listed in Section 1.

Respiratory: If exposures exceed the recommended time-weighted averages, A NIOSH approved respirator for particulate matter should be worn. N-95 dust mask.

Eye Protection: If abrasion-created dust levels are high, safety glasses with side shields should be worn.

Protective gloves: Skin sensitive persons may need gloves.

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## 8. CHEMICAL REACTIVITY

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Conditions causing instability: Stable

Incompatibility (Materials to avoid): NE

Hazardous decomposition products: None expected

Special Sensitivity: NA

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## 9. STORAGE INFORMATION

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Handle to minimize the formation of dust.

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**10. SPILL, LEAK AND DISPOSAL INFORMATION**

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Steps to be taken in case material is spilled or released: If dust has been spilled, isolate and wet using fine water mist if possible. Wear a NIOSH-approved respirator for dust. Sweep material into an airtight container. Wash contaminated clothing separately.

EPA RCRA ID Number: Not considered to be a hazardous waste pursuant to 40 CFR 261.

Waste Disposal Method: Dispose of subassembly in an approved industrial landfill or recycle for steel content.

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**11. SHIPPING INFORMATION**

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DOT Shipping Name: NA  
Technical Shipping Name: Steel disk & wear pads  
DOT Hazard Classification (Primary): NA  
(Secondary): NA  
Freight Classification: Aircraft Brake or Brake Parts NMFC-100-P Item No. 11920  
UN Number: NA  
IMO Hazard Class: NA  
DOT Labels Required: NA  
EPA/DOT Hazardous substances RQ: NA

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**12. OTHER GOVERNMENT REGULATIONS**

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NA

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**13. ADDITIONAL COMMENTS**

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This item is considered an "Article" and does not pose any safety, health or environmental hazard in its fabricated state.

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Prepared by: J. V. Pflaum, CIH Date: May 15, 2008  
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**NE - NOT ESTABLISHED NA - NOT APPLICABLE**

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