



Revised 2/14/86

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910, 1200.
Standard must be consulted for specific requirements.

The product identity on this page meets the OSHA definition of an article and is exempt from the Hazard Communication Standard as to all normally careful uses. Some potential may exist for exposure to dust.

The ingredients in these products are resin-bonded and hazards normally associated with contact to pure dusts of the listed ingredients should not be significant. Abex has listed all of the essential ingredients present in a series of products of this general description. All products identified on this MSDS contain asbestos and lead but will not contain all of the other materials shown. The recommended exposure limits are those for the most hazardous substance in a class of substances. Exact formulation is considered proprietary and confidential. Precise product information will not be disclosed, other than to a health professional in accordance with the regulations, without an approved Secrecy Agreement.

The information herein is believed to be accurate, however, Abex makes no representation or warranty as to its accuracy. This data is furnished gratuitously and independently of any sale of the product, and only for customer investigation and independent verification.

Abex shall in no event be responsible for any damages of whatever nature directly or indirectly resulting from the publication or use of or reliance upon data contained herein. No express or implied warranty of any kind, including warranties of merchantability or fitness for use, with respect to the product or to the data herein is made hereunder.

IDENTITY (As Used on Label and List)

38-27E, 83-2, 261-1&2, 337-1, 435-(4, 6&7), 606-2, 693-388, 504, ABEX (615GF, 656FF, 667FF, 661FF, 662FF, 628GG, 658FE, 655FF), ABB (215GF, 249FF, 250FF, 272FF, 268FF, 269FF, 219GG, 253FE), COM (313GF, 361FF, 362FF, 346FF, 394FE, 343FF, 344FF, 317GG), 255

SECTION I

Manufacturer's Name: ABEX CORPORATION
Friction Products Division

Emergency Telephone Number (703) 662-3842

Telephone Number for Information (703) 662-3871

Address: (Number, Street, City, State, Zip Code)

2410 Papermill Road, P.O. Box 3250
Winchester, VA. 22601

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Preparer M. K. Leung

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA	PEL	ACGIH	TLV
Asbestos (Crysotile), Talc	2 fibers/c.c.		2 fibers/c.c.	
Silica, Silicates, Tripoli	0.1 mg/M ³		0.1 mg/M ³	
Carbon Black, Graphite, Coal, Coke	2.0 mg/M ³		2.0 mg/M ³	
Phenolic and Cashew Compounds	5.0 mg/M ³		5.0 mg/M ³	
Wood Flour and Other Fillers	1.0 mg/M ³		1.0 mg/M ³	
Iron, Zinc, Aluminum, Brass, and their Oxides	10.0 mg/M ³		10.0 mg/M ³	
Lead and its Compounds	0.05 mg/M ³		0.15 mg/M ³	

SECTION III - Physical / Chemical Characteristics

Boiling Point	NA	Specific Gravity (H₂O - 1)	1.6 - 2.8
Vapor Pressure (mm Hg.)	NA	Melting Point	NA
Vapor Density (Air - 1)	NA	Evaporation Rate (Butyl Acetate - 1)	0
Solubility in Water No			
Appearance and Odor Solid, Odor, Light Tan to Dark Grey Color			Warner SBC-25-000039

cc: G. FEINSTEIN, J. HANSEN / 0022 4/2/86

Form #2

SCF-ABEX-2887

SECTION IV - Fire and Explosion Hazard Data			
Flash Point (Method Used)	NA	Flammable Limits	NA LEL UEL
Extinguishing Media Water, (Class A, B, or C)			
Special Fire Fighting Procedures NK			
Unusual Fire and Explosion Hazards NK			

SECTION V - Reactivity Data			
Stability	Unstable		Conditions to Avoid NK
	Stable	X	
Incompatibility (Materials to Avoid) NK			
Hazardous Decomposition or Byproducts Incomplete combustion will create carbon monoxide and dioxide.			
Hazardous Polymerization	May Occur		Conditions to Avoid NK
	Will Not Occur	X	

SECTION VI - Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic) Some persons may be sensitive to cashew resins and develop dermatitis-type problems. Dust of asbestos, silica, talc, graphite, carbon black, and coal can produce pneumoconiosis and other lung damage. Metal dusts can be irritants of the eyes and upper respiratory system. There is little evidence of chronic industrial poisoning from iron, aluminum, and zinc dust. Chronic exposure to lead can affect kidneys, blood, gums, gastrointestinal system, and central nervous system.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
Asbestos	Yes	Yes	No
Signs and Symptoms of Exposure Cashew resin - skin eruptions, similar in appearance to poison ivy. Pneumoconiosis - coughing, wheezing, shortness of breath, impaired pulmonary function. Dusts in eye may cause irritation. Gastrointestinal disturbances possible from ingestion. Lead may decrease physical fitness, cause fatigue, sleep disturbance, headache, aching bones and muscles, abdominal pain and decreased appetite and progressive to more severe symptoms.			
Medical Conditions Generally Aggravated by Exposure NK			
Emergency and First Aid Procedures Should not be necessary from reasonable handling of this product.			

Warner SBC-25-000040

SECTION VII - Precautions for Safe Handling and Use**Steps to Be Taken in Case Material is Released or Spilled**

Grinding, drilling, milling, etc. can result in the release of airborne dust. Measures as outlined in Section VIII should be followed if this occurs.

Waste Disposal Method

Asbestos per 40 CFR, Part 61, 29 CFR, Part 1910.1001
Other Hazardous Ingredients per 40 CFR, Part 261, 262 and applicable State and Local regulations.

Other Precautions

Specific requirements are covered per OSHA 29 CFR 1910.1025
Pre-employment screening for allergies and histories of skin sensitivities may be beneficial in determining persons sensitive to cashew materials.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type) NIOSH approved for pneumoconiosis - fibrosis producing dusts and dusts with TLV not less than 0.05 mg/M³.

Ventilation	Local Exhaust	Recommended for dust sources.
	Mechanical (General)	Not recommended for dust control.
	Special	NK
	Other	Barrier creams for persons with skin sensitive to cashew resins.

Protective Gloves

Recommended where skin contact with lead and cashew resins.

Eye Protection

Should not be needed for normal handling of product. Eye protection is good practice where dust is propelled by grinding or drilling activities.

Other Protective Clothing or Equipment

Recommended in dusty atmosphere. This may be required under the OSHA lead standard depending upon exposure levels.

Work/Hygienic Practices

Employees should be properly instructed in the use of control measures as indicated above when there is a need for it. If dust from this product is produced, unnecessary exposures should be avoided by using a vacuum in place of dry brooming. Use wet method of cleaning for other surfaces. Proper and adequate personal hygiene should be practiced by exposed workers.

NA - Not Available

NK - Not Known