

MSDS GROUP: 12

MATERIAL SAFETY DATA SHEET
THE BABCOCK & WILCOX COMPANY
INSULATING PRODUCTS DIVISION

PAGE 1 OF 2

MSD Identification/Trade Name and Synonyms

(NOTE: Labels on products will show individual product trade names)

KAOWOOL BULK FIBER PRODUCTS: BULK A
BULK AXE
BULK HPA
BULK HPAXE
BULK 106F
ST BULK
2600 BULK
CHOPPED FIBER
DEVELOPMENTAL MIX 159F

KILARK PF8

SECTION I

Manufacturer's Name	Emergency Telephone Number
BABCOCK & WILCOX, INSULATING PRODUCTS DIVISION	(404) 796-4200
Address (Number, Street, City, State, Zip)	
P.O. BOX 923, 2102 OLD SAVANNAH ROAD, AUGUSTA, GEORGIA 30903	
Chemical Name and Synonyms	Formula
N/A MIXTURE	N/A
Chemical Family	Comments
ALUMINOSILICATE	N/A

SECTION II HAZARDOUS INGREDIENTS

A. AS MANUFACTURED	WT. %	TVL/PEL
REFRACTORY CERAMIC FIBER	100	2 f/cc*

*BABCOCK & WILCOX WORK PLACE EXPOSURE GUIDELINE

B. AFTER NORMAL USE
SEE SECTION IX

SECTION III PHYSICAL DATA

Boiling Point (F)	N/A	Specific Gravity Range (H2O = 1)	
Vapor Pressure (mm Hg.)	N/A	2.56	
Vapor Density (Air = 1)	N/A	Percent Volatile by Volume (%)	N/A
Solubility in Water	INSOLUBLE	Evaporation Rate (- 1)	N/A
Appearance and Odor			
WOOL-LIKE FIBROUS MATERIAL.	NO ODOR.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	Flash Point (Method Used)	Flammable Limit	
N/A	N/A	N/A	
Unusual Fire and Explosive Hazards	Special Fire Fighting Procedures	LEL	UEL
N/A	N/A	N/A	N/A

DATE PREPARED: 09/24/85 DATE REVISED:

56

----- SECTION V HEALTH HAZARD DATA -----

Primary Route of Entry

INHALATION, INGESTION AND SKIN IRRITATION

Effects of Overexposure

BASED ON LIMITED TESTING, REFRACTORY CERAMIC FIBERS ARE A SUSPECTED CARCINOGEN IN LABORATORY ANIMALS. CURRENTLY, THERE ARE NO KNOWN CHRONIC HEALTH EFFECTS IN HUMANS FROM LONG-TERM EXPOSURE TO REFRACTORY CERAMIC FIBERS. THE THERMAL INSULATION MANUFACTURERS ASSOCIATION (TIMA) IS SPONSORING ANIMAL INHALATION STUDIES AS WELL AS EPIDEMIOLOGICAL STUDIES OF WORKERS IN THE INDUSTRY. UNTIL DEFINITE ANSWERS BECOME AVAILABLE, STRICT ADHERENCE TO RECOMMENDED SAFE WORK PRACTICES DESCRIBED ELSEWHERE IN THIS MSDS IS ADVISED.

Emergency and First Aid Procedures
TERMINATE EXPOSURE

----- SECTION VI FIRE, EXPLOSIVE AND REACTIVITY DATA -----

N/A

----- SECTION VII SPILL OR LEAK PROCEDURES -----

Recommended Procedure

Waste Disposal Method

N/A

ROUTINE HOUSEKEEPING

----- SECTION VIII SPECIAL PROTECTION INFORMATION -----

Respiratory Protection (Specify Type)

DUST RESPIRATOR IN COMPLIANCE WITH OSHA STANDARD CURRENTLY 29 CFR 1910.134
NIOSH APPROVED, AIR PURIFYING, HALF MASK OR FULL FACEPIECE RESPIRATOR WITH
APPROPRIATE FILTER PAD OR CARTRIDGE(S))

Ventilation

Local Exhaust

FOLLOW OSHA STANDARD 29 CFR 1910.94

Mechanical (General)

FOLLOW OSHA STANDARD 29 CFR 1910.94

Protective Gloves

RECOMMENDED

Eye Protection

GOGGLES/SAFETY GLASSES RECOMMENDED

Other Protective Equipment

LONG SLEEVE, LOOSE FITTING CLOTHING AND BARRIER CREAM

Material DOES NOT appear on NTP and/or LAC lists of reports for Carcinogens

----- SECTION IX SPECIAL PRECAUTIONS -----

Precautions To Be Taken After Use and Upon Removal

THIS PRODUCT AS MANUFACTURED IS AN ALUMINOSILICATE WHICH COULD TRANSFORM UPON HEATING TO MULLITE AND CRISTOBALITE (A FORM OF CRYSTALLINE SILICA). REMOVAL OF THIS PRODUCT AFTER USE MAY RESULT IN THE GENERATION OF DUST. REPEATED INHALATION OF RESPIRABLE FREE CRYSTALLINE SILICA DUST MAY CAUSE DELAYED LUNG INJURY (SILICOSIS). THE RECOMMENDED TLV/PEL FOR FREE CRYSTALLINE SILICA IS DERIVED FROM THE FORMULA:

$$10 \text{ mg/cu m}$$

$$1/2(-----)$$

$$\times \text{Respirable quartz} \times 2$$

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). APPROPRIATE VENTILATION SHOULD BE PROVIDED AND PROTECTIVE EQUIPMENT SHOULD BE WORN IN COMPLIANCE WITH OSHA STANDARD CURRENTLY 29 CFR 1910.134 [NIOSH APPROVED, AIR PURIFYING, HALF MASK OR FULL FACEPIECE RESPIRATOR WITH APPROPRIATE FILTER PAD OR CARTRIDGE(S)].

FOR FURTHER INFORMATION, REFER TO BABCOCK & WILCOX'S PAMPHLET "HEALTH AND SAFETY ASPECTS OF REFRACTORY CERAMIC FIBERS", DATED 05/85.