

CPSC ASBESTOS PRODUCT FACT SHEET

PLAINTIFF'S
EXHIBIT

GP-270

PRODUCT Firebox In Fireplaces (Stage Sets) -

DISCUSSION

Although product application lists have referred to this usage no such current application could be identified.

Asbestos Concentration:	Unknown
Method of Incorporation:	Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product intended for use in consumer environment

INFORMATION SOURCES

Ace Service Co.
King's Row Fireplace Shop.

Cleveland, OH
Mentor, OH

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Fireplace Ash and Logs

DISCUSSION

Asbestos was previously used to decorate logs and ash in gas fired fireplaces. The industry ceased production of asbestos containing emberizing material in mid-1977. The CPSC banned this use of asbestos, December 15, 1977 (16 CFR 1305)

Asbestos Concentration: Up to 100%
Method of Incorporation: Powder, Fiber

SCENARIO FOR FIBER RELEASE

Stirring of logs, cleaning of fireplace

CONSUMER CONTACT

A consumer directed product

INFORMATION SOURCES

CPSC

Washington, DC

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Fire-starters and Barbecue-lighters

DISCUSSION

Coil type barbecue grill fire-starters which frequently contain small fans to speed the ignition on the charcoal were alleged to contain asbestos insulation. Magnesium oxide is the only insulating material used in these products according to the leading manufacturers.

Asbestos Concentration:	Unknown
Method of Incorporation:	Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Products designed for consumer use

INFORMATION SOURCES

Meteor, Inc.
Mr. Bartender Products, Inc.
Paramount Wire Products

Monrovia, CA
Florence, KY
Alhambra, CA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Flashing Cement

DISCUSSION

Asbestos fibers are used as binders and fillers in asphalt-type flashing cements. These cements are formulated to remain semi-viscous.

Asbestos Concentration:	15% to 45%
Method of Incorporation:	Fibers thoroughly mixed in semi-viscous matrix.

SCENARIO FOR FIBER RELEASE

Although these cements generally remain pliable hardening, cracking, and sloughing could occur in older structures.

CONSUMER CONTACT

Presence during repair or demolition of older commercial or residential structures.

INFORMATION SOURCES

American Petrofina, Inc.
Gardner-Martin Asphalt Corp.
Macco Div. SCM Corp.
Tremco Manufacturing Co.

Dallas, TX
Tampa, FL
Cleveland, OH
Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Flower Pots

DISCUSSION

A patent was issued for the fabrication of asbestos containing flower pots. Assignee reported that product was never manufactured.

Asbestos Concentration: Unknown
Method of Incorporation: Fibers thoroughly mixed in hard matrix

SCENARIO FOR FIBER RELEASE

Breakage, abrasion

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Johns-Manville Corp.
U. S. Patent No. 2,939,247

Denver, CO

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Friction Materials

DISCUSSION

Clutch plates and brake linings contain asbestos bound in resins. Respondents indicated that fibers are mechanically and thermally altered to a non-fibrous form during product use. However, some sources indicate that unaltered fibers can be emitted during use of the product.

Asbestos Concentration: 30 to 70%
Method of Incorporation: Fibers generally in felt or cloth form impregnated with resin

SCENARIO FOR FIBER RELEASE

During use fibers may be emitted to the atmosphere or emitted and retained by related mechanical parts and released to atmosphere during repair or replacement operations.

CONSUMER CONTACT

Consumers occasionally repair product incorporating asbestos friction materials; consumers may be present during commercial repair activity.

INFORMATION SOURCES

Environmental Sciences Laboratory	
Mt. Sinai School of Medicine	New York, NY
Johns-Manville Corp.	Denver, CO
Union Carbide Corp.	New York, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT - Furnace Cements

DISCUSSION

Furnace cements are commonly composed of asbestos, sodium silicate, calcium carbonate and water. They are used in the repair of furnace fire brick and fireplace brick.

Asbestos Concentration: 8 to 10%
Method of Incorporation: Thoroughly mixed in viscous matrix
which becomes brittle in use

SCENARIO FOR FIBER RELEASE

During demolition of older furnaces or fireplaces

CONSUMER CONTACT

Not intended for consumer market - can be purchased, however, by consumer through heating supply outlets.

INFORMATION SOURCES

Nebel Products Manufacturing Co.
Pecora Chemical Corp.

Cleveland, OH
Harleysville, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT

Garbage Incinerators (Residential)

DISCUSSION

Respondents indicated that the home incinerator firebox no longer contains asbestos. The insulation between the inner and outer steel shells of the firebox is generally fiberglass or a heat resistant composition material. Fire door seals are of similar materials.

Asbestos Concentration:	Unknown
Method of Incorporation:	Unknown

SCENARIO FOR FIBER RELEASE

Destruction of older incinerators which incorporated asbestos insulation.

CONSUMER CONTACT

In presence of destruction of asbestos insulated incinerator

INFORMATION SOURCES

Calcinator Corp.
Locke Stove Co.

Bay City, MI
Kansas City, MO

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Glazing Compound

DISCUSSION

Some glazing compounds contain small amounts of asbestos fiber. Its inclusion prevents cracking as the compound dries.

Asbestos Concentration: 2%
Method of Incorporation: Thoroughly mixed in viscous matrix

SCENARIO FOR FIBER RELEASE

The compound becomes hard with age and dust could occur during removal of old compound.

CONSUMER CONTACT

Product directed to consumer market

INFORMATION SOURCES

Deshler Products Co.
Perfection Molded Products
Tremco Manufacturing Co.

Deshler, OH
Chicago, IL
Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Hair Dryers

DISCUSSION

Asbestos wrapped external cords and internal wiring are common in hand held and hood type hair dryers. One manufacturer reported that the barrel lining for their hand held dryer was made of U.L. listed asbestos paper. However, this manufacturer reports that mica is being substituted for asbestos in future production.

Asbestos Concentration: 85 to 90%
Method of Incorporation: See wiring and asbestos paper

SCENARIO FOR FIBER RELEASE

During breakage or repair

CONSUMER CONTACT

Product is designed for consumer use; however, likelihood of consumer repair is felt to be remote.

INFORMATION SOURCES

Continental Products Co., Inc.	Edison, NJ
General Electric Co.	
Housewares Div.	Bridgeport, CT
Hamilton-Beach Division	
of Scovill Manufacturing Co.	Waterbury, CT
North American Phillips	
Corp. (Norelco)	New York, NY
Pearl Duck, Inc.	Garden City, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Hay Curing

DISCUSSION

Industry lists alleged the use of asbestos cloth to preserve the aroma and color of hay during the curing process. Association contacts indicated that although good color and aroma are essential qualities of prime hay, they knew of no usage of asbestos cloth to maintain these properties.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion, destruction

CONSUMER CONTACT

Product not intended for consumer use

INFORMATION SOURCES

American Forage and
Grass Council
National Hay Association, Inc.

Lexington, KY
Jackson, MI

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Heating Pads

DISCUSSION

Two types of heating pad wiring are presently produced. Vinyl clad wiring is most widely used. At least one heating pad manufacturer uses an element wide sheathed in an asbestos sleeve.

Asbestos Concentration: 85%
Method of Incorporation: Woven

SCENARIO FOR FIBER RELEASE

Tearing of the heating pad could expose the asbestos clad wiring.

CONSUMER CONTACT

Only one manufacturer reported that he used asbestos clad heating wires in his heating pads. This product is sold exclusively in Canada. His share of the total market is small. Domestic consumer exposure appears to be slight.

INFORMATION SOURCES

Kaz, Inc.
Oster Corp.
Sunbeam Appliance,
Div. of Sunbeam Corp.

New York, NY
Milwaukee, WI
Oak Brook, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Carpet Underlay

DISCUSSION

Published sources cite the use of asbestos in carpet underlay. However, no asbestos containing carpet underlay product could be identified.

Asbestos Concentration:	Unknown
Method of Incorporation:	Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product designed for use in consumer environment

INFORMATION SOURCES

Carpet and Rug Institute
Carpet Cushion Council

Dalton, GA
Farmington Hills, MI

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Catalytic Heater Mantles

DISCUSSION

The hemispheric net basket which serves as the matrix for heat generation in the recreational catalytic heater is made of asbestos fabric impregnated with platinum.

Asbestos Concentration: Approximately 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion of basket during replacement

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Coleman Co., Inc.
Optimus-Princess, Inc.
S. F. Appliances, Ltd.
Zomax Industries, Ltd.

Wichita, KA
Santa Fe Springs, CA
Morris, IL
Long Island City, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Ironing Board Pads and Covers

DISCUSSION

In the past ironing board covers and pads commonly were made of asbestos cloth because of its high heat resistance and durability. No ironing board cover manufacturer indicated that asbestos was currently used in the consumer market products. However, asbestos containing commercial covers are still being manufactured.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven Cloth

SCENARIO FOR FIBER RELEASE

Abrasion, fraying

CONSUMER CONTACT

Product was widely sold to the consumer market.

INFORMATION SOURCES

Gibraltar Industries
Raybestos-Manhattan, Inc.
Gem, Inc.
Wagner Manufacturing Co.
Magla Products
Ironees Co.

Brooklyn, NY
Trumbull, CT
Byhalia, MS
Sidney, OH
Irvington, NJ
Philadelphia, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Laboratory Table Tops

DISCUSSION

Asbestos cement sheet is commonly used for scientific table tops because of its high resistance to heat and chemical attack. These table tops are frequently coated or painted with heat resistant materials.

Asbestos Concentration: 10% to 25%
Method of Incorporation: See Asbestos Cement Sheet

SCENARIO FOR FIBER RELEASE

Cutting, abrasion and demolition

CONSUMER CONTACT

Product widely used in schools and other consumer environments.

INFORMATION SOURCES

Micolet, Inc.

Ambler, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Lamp Mantles

DISCUSSION

Lamp mantles occur in kerosene and butane recreational outdoor lanterns. They are essentially small rayon net bags which confine burning to a limited area, creating luminescence. These mantles are attached to the neck of the lamp by a small asbestos cord.

Asbestos Concentration: Up to 100%
Method of Incorporation: Yarn

SCENARIO FOR FIBER RELEASE

Abrading cord during replacement

CONSUMER CONTACT

Product designed for consumer use; mantles require frequent replacement

INFORMATION SOURCES

Coleman Co., Inc.

Wichita, KS

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Lamp Sockets

DISCUSSION

Asbestos may be a purposeful inclusion in two components of some lamp sockets. The body of the socket proper may be asbestos phenolic molded plastic. The "cardboard" insulating tube may be asbestos coated. Industry respondents indicated that the trend is to eliminate asbestos from both components due to strict OSHA requirements.

Asbestos Concentration: 15% to 90%
Method of Incorporation: Various

SCENARIO FOR FIBER RELEASE

Abrasion or Destruction

CONSUMER CONTACT

Presence during abrasion or destruction.

INFORMATION SOURCES

Circle F Corporation
Harvey Hubbell Inc.
Bryant Electric Div. of Westinghouse
Leviton Mfg. Co. Inc.

Trenton, NJ
Bridgeport, CT
Bridgeport, CT
Little Neck, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Linings For Safes and Filing Cabinets

DISCUSSION

Because of its heat resistance asbestos in various forms was used in safes and filing cabinets. Presently most safes and filing equipment are lined with vermiculite containing cements. Some home wall safes are lined with asbestos sheet. This lining is generally painted or coated for appearance.

Asbestos Concentration: Up to 100%
Method of Incorporation: Fibers matted together

SCENARIO FOR FIBER RELEASE

Abrasion of inner lining, which is not considered likely in normal use; demolition

CONSUMER CONTACT

Product used in consumer environment

INFORMATION SOURCES

Diebold, Inc.
Mosler Safe Co.
Schwab Safe Co.

Canton, OH
Hamilton, OH
Lafayette, IN

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Lumber

DISCUSSION

Published sources refer to asbestos lumber. However, no product referred to as asbestos lumber could be identified.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Unknown

INFORMATION SOURCES

Germain Timber Co.
Hardwoods Lumber Co.
National Gypsum Co.
United States Gypsum Co.

Pittsburgh, PA
Cleveland, OH
Buffalo, NY
Chicago, IL

British Patent 1,289,465

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Mailbags

DISCUSSION

Mailbags were alleged to have been made of asbestos. Manufacturers of mailbags indicated asbestos is not used. Fabrics employed include nylon, cotton, and combinations of the two.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion, tearing

CONSUMER CONTACT

Product is used in consumer environment

INFORMATION SOURCES

Gibraltar Industries, Inc.
Prison Industries, Inc.
Steele Canvas Basket Co., Inc.

Brooklyn, NY
Atlanta, GA
Cambridge, MA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Mastic

DISCUSSION

These viscous substances are used as an adhesive for the placement of tiles, felts, etc. The presence of asbestos reduces crazing, shrinkage and embrittlement.

Asbestos Concentration: 5 to 60%
Method of Incorporation: Thoroughly mixed in asphalt matrix

SCENARIO FOR FIBER RELEASE

Since asbestos as an additive reduces embrittlement the danger of free fiber exposure appears limited.

CONSUMER CONTACT

Mastics are readily available to the consumer.

INFORMATION SOURCES

Chicago Mastic Co.

Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Mats (for Gas Stove Burners)

DISCUSSION

Burner mats are circular sheets of asbestos millboard used to provide an even heat surface to burners on gas stoves. The millboard is generally encircled by a metal ring. These were formerly common kitchen items. However, few manufacturers still make burner mats.

Asbestos Concentration: 85%
Method of Incorporation: Pressed board

SCENARIO FOR FIBER RELEASE

Abrasion or destruction

CONSUMER CONTACT

During use or destruction

INFORMATION SOURCES

Aristo-Mat, Inc.	Chicago, IL
Ballanoff Home Products Co.,	
Div. of Pentron Industries, Inc.	Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Metal Deadener

DISCUSSION

Closely related in composition to automobile undercoating, metal deadener is known as "Dum-Dum" in the trade. As used on the inside of fenders, doors, hoods, etc., it serves to muffle road, vibration, and engine noises. The product is designed to remain semi-viscous.

Asbestos Concentration: 10%
Method of Incorporation: Thoroughly mixed in asphalt

SCENARIO FOR FIBER RELEASE

Abrasion if material hardened

CONSUMER CONTACT

Applied to automobiles during manufacture

INFORMATION SOURCES

Gibson-Homans Co.
Quaker State Oil Refining Corp.

Cleveland, OH
Oil City, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Millboard

DISCUSSION

Asbestos millboard is essentially thick asbestos paper used for thermal and electrical insulation. Industrial uses include:

- Electric switch boxes
- Gaskets, plain and metallic
- Washers in electrical apparatus
- Ovens and dry kilns
- Paddles in glass mills

Asbestos Concentration: Up to 85%
Method of Incorporation: Fibers inter-locked, no matrix

SCENARIO FOR FIBER RELEASE

Abrasion or destruction

CONSUMER CONTACT

Product is generally incorporated into industrial products and is not designed for sale to consumers. However, see also rotisserie broilers, toasters, and mats.

INFORMATION SOURCES

Johns-Manville Corp.

Denver, CO

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Molded Plastics

DISCUSSION

Asbestos fibers are used in molded plastics to impart impact and tensile strength, heat and chemical resistance. Industry contacts indicate a dramatic reduction in the use of asbestos for this purpose. Substitutes include talc which may contain asbestos contaminants.

Asbestos Concentration: 5 to 50%

Method of Incorporation: Fibers are thoroughly mixed in hard to brittle matrix.

SCENARIO FOR FIBER RELEASE

Sanding or abrading; no product identified which would be sanded or abraded in foreseeable use

CONSUMER CONTACT

Products widely used in consumer environment

INFORMATION SOURCES

Johns-Manville Corp.
Plastics Engineering Co.
Rogers Corp.

Denver, CO
Sheboygan, MI
Rogers, CT

U. S. Patents	2,945,831	3,572,863
	3,322,549	3,649,592
	3,356,554	3,928,277

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Motion Picture Screens

DISCUSSION

Motion picture screens were allegedly made of asbestos cloth for fire safety reasons. Industry respondents said that asbestos is no longer used in the manufacture of movie screens for home, institutional or theatre usage. Presently vinyl laminated fiberglass cloth is used exclusively.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion, demolition

CONSUMER CONTACT

Quantity of older, asbestos containing, screens presently in use unknown.

INFORMATION SOURCES

Da-Lite Screen Co., Inc.
Duracote Corp.

Warsaw, IN
Rayenna, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Automotive Mufflers

DISCUSSION

Asbestos sheet is used between the inner and outer shell of standard auto mufflers because of its heat resistance and sound deadening properties. The sheet varies between .030 and .090 inches thick. Suitable asbestos substitutes have not been identified. However, through design changes asbestos can be eliminated from the product. An industry respondent indicated that the two largest domestic auto makers will purchase no asbestos containing mufflers after 1978.

Asbestos Concentration: To 90%
Method of Incorporation: Paper

SCENARIO FOR FIBER RELEASE

Puncture or deterioration of inner or outer shell

CONSUMER CONTACT

In presence of damaged muffler during engine use or muffler repair.

INFORMATION SOURCES

American Motors Corp.
Arvin Industries, Inc.
Hayes Albion Corp.
Maremont Corp.
Muffler Dynamics, Inc.

Southfield, MI
Columbus, IN
Jackson, MI
Chicago, IL
Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Automotive Undercoating

DISCUSSION

Undercoatings on automobiles, trucks, and other vehicles are applied to retard rust and to help prevent stone damage to the body. These undercoatings are asphalt or wax based and designed to remain semi-viscous. The coatings are applied by the manufacturer or by specialty undercoating garages.

Asbestos Concentration:	5 to 20%
Method of Incorporation:	Fibers thoroughly mixed in semi-viscous matrix

SCENARIO FOR FIBER RELEASE

Industry sources report that fiber release is highly unlikely.

CONSUMER CONTACT

Product widely used in consumer environment

INFORMATION SOURCES

Gibson-Homans Co.
Quaker State Oil
Refining Corp.

Cleveland, OH
Oil City, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Awnings

DISCUSSION

Although asbestos awnings were commercially available about ten years ago, industry respondents indicated this product is no longer made. Other flame resistant materials have been substituted for asbestos cloth.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven Cloth

SCENARIO FOR FIBER RELEASE

Tearing, abrasion, destruction

CONSUMER CONTACT

The extent to which older, asbestos cloth awnings are presently in use is not known.

INFORMATION SOURCES

Cooley and Co., Inc.
General Awning Co.
Graniteville Mills, Inc.
Ohio Awning, Inc.
Snyder Manufacturing Co.
Wagner Industries, Inc.
West Point Pepperell Co.

Pawtucket, RI
Cleveland, OH
Graniteville, NC
Cleveland, OH
Worthington, OH
Cleveland, OH
New York, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Backgrounds For Window Displays

DISCUSSION

Published sources cite the use of asbestos in backgrounds for window displays. However, respondents were unaware of such a product.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product presumably intended for use in retail stores.

INFORMATION SOURCES

Asbestos Information
Association

Arlington, VA

The Halle Bros. Co.

Cleveland, OH

The Higbee Co.

Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT - Bags

DISCUSSION

Asbestos bags are manufactured by specialty fabricators from untreated asbestos cloth. The bags are used for the collection of dust particles from high heat gases in industrial furnaces.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven cloth, untreated

SCENARIO FOR FIBER RELEASE

Abrasion, destruction

CONSUMER CONTACT

Product not used in consumer environment

INFORMATION SOURCES

Southern Asbestos Co.

Charlotte, NC

CPS-1 ASBESTOS PRODUCT FACT SHEET

PRODUCT

Baking Sheets

DISCUSSION

Industry respondents were unaware of an asbestos food preparation product called a baking sheet. However, thick asbestos cement sheet is used as the cooking surface in pizza ovens. Asbestos cement sheet may also be used in wall structure of other commercial food processing equipment.

Asbestos Concentration:
Method of Incorporation:

See Asbestos Cement Sheet
See Asbestos Cement Sheet

SCENARIO FOR FIBER RELEASE

Abrasion or breakage.

CONSUMER CONTACT

Pizza ovens are used in consumer environment.

INFORMATION SOURCES

Ekco Housewares Company
Johns-Manville Corp.
Mirro Aluminum Co.

Franklin Park, IL
Denver, CO
Manitowoc, WI

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT - Barbecue Firebed Materials

DISCUSSION

Firebed materials simulating charcoal are non-combustible blocks frequently they generate radiant heat for cooking. Used in gas barbecue grills are that asbestos containing briquettes may have been produced at one time, but industry sources indicate that this is not the current practice.

Asbestos Concentration: Unknown
Method of Incorporation: Fiber probably thoroughly mixed in brittle matrix

SCENARIO FOR FIBER RELEASE

During breakage or abrasion, which are not considered likely in normal use.

CONSUMER CONTACT

Product widely used in home and institutional barbecue grills

INFORMATION SOURCES

W. C. Bradley Co.
W. R. Grace and Co.
Premier Brands Co.

Columbus, GA
Cambridge, MA
New York, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Belting (Asbestos)

DISCUSSION

Belting, a specially woven heavy asbestos cloth, is used primarily as a conveyor in the glass industry. Other industrial uses include chute liners, hand pads, cup liners and gaskets.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Tearing, abrasion, destruction

CONSUMER CONTACT

Product is not used in consumer environment; however, product is used in the manufacture of consumer products.

INFORMATION SOURCES

Southern Asbestos Co.

Charlotte, NC

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT : Blackboards

DISCUSSION

Asbestos cement sheet was commonly used as a chalk-board material in schools and other institutions. Respondents indicated that asbestos cement blackboards are no longer manufactured.

Asbestos Concentration: see Asbestos Cement Sheet
Method of Incorporation: see Asbestos Cement Sheet

SCENARIO FOR FIBER RELEASE

During abrasion or demolition, which are not considered likely in normal use.

CONSUMER CONTACT

Widely used in schools and other consumer environments

INFORMATION SOURCES

Claridge Products and Equipment Co., National School Supply and Equipment Association Webber Costello Co.	Harrison, AR Arlington, VA Chicago, IL
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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT : Blankets

DISCUSSION

Blankets fabricated from asbestos cloth are emergency safety items used for smothering fires.

Asbestos Concentration: Up to 90%
Method of Incorporation: Woven

SCENARIO FOR FIBER RELEASE

Abrasion or shredding of product

CONSUMER CONTACT

During emergency use of product in consumer environment

INFORMATION SOURCES

Singer Safety Products, Inc.

Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Blocks

DISCUSSION

Sources indicate that shims and support blocks for industrial kilns and heat treating furnaces are infrequently made of pressed asbestos material.

Asbestos Concentration: Up to 100%
Method of Incorporation: Fibers compacted into block

SCENARIO FOR FIBER RELEASE

Abrasion

CONSUMER CONTACT

Product not used in consumer environment

INFORMATION SOURCES

Claremont Co., Inc.	Meriden, CT
Grant Wilson, Inc.	Chicago, IL
S. A. S. Gasket and Supply, Inc.	Wantagh, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Boots, Overgaiters

DISCUSSION

An item of industrial safety equipment for use in foundries, glassworks, firefighting etc.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion

CONSUMER CONTACT

While primarily a product used in the work place it is possible for consumer to purchase product and use in the consumer environment.

INFORMATION SOURCES

Singer Safety Products, Inc. Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Braid

DISCUSSION

Braid is a narrow textile band formed by plaiting together several strands of asbestos yarn. A similar product formed by twisting, rather than plaiting is known as rope. These products are generally used in industrial application, for instance as packing.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Yarn

SCENARIO FOR FIBER RELEASE

Abrasion

CONSUMER CONTACT

Not used in consumer environment

INFORMATION SOURCES

Asbestos Textile Institute
Raybestos-Manhattan, Inc.
Southern Asbestos Co.

Pompton Lakes, NJ
North Charleston, SC
Charlotte, NC

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT

Candle Wicks

DISCUSSION

It was alleged that asbestos fibers constituted a portion of some candle wicks. Respondents indicate that asbestos is not used for this purpose.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Abrasion, trimming, burning of wick

CONSUMER CONTACT

Candles widely used in consumer environment

INFORMATION SOURCES

Colonial Candle of Cape Cod	Hyannis, MA
Diamond Candle Co., Inc.	Newburg, NY
Lenox, Inc.	Trenton, NJ
Minnetonka Laboratories, Inc.	Chaska, MN
Syracuse China Corp.	Syracuse, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Caulking Compounds and Putties

DISCUSSION

Some caulking compounds and putties contain small amounts of asbestos fiber. Its inclusion lends viscosity and retains, by absorption, the oils which insure ductility, thus preventing cracking.

Asbestos Concentration: .5% to 1.0%
Method of Incorporation: Mixed in a viscous matrix

SCENARIO FOR FIBER RELEASE

If compounds become hardened through weathering and loss of oils, cracking and embrittling may result. Fibers may then be released during removal of brittle putty.

CONSUMER CONTACT

Products used in consumer environment

INFORMATION SOURCES

Deshler Products Co.
W. R. Grace and Co.
Inmont Corp.
Manus Products Co.
Pfizer, Inc.

Deshler, OH
New York, NY
St. Louis, MO
Royal Oaks, MI
New York, NY

U. S. Patent 2,847,315

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Ceramic and Quarry Floor Tile Cement

DISCUSSION

Certain mastics are formulated specifically for ceramic and quarry tile flooring. Some contain asbestos as a purposeful constituent. They are trowel applied to the tiles. The tile is later grouted for appearance.

Asbestos Concentration: 2%

Method of Incorporation: Thoroughly mixed in an asphalt matrix

SCENARIO FOR FIBER RELEASE

These floor cements are formulated to remain ductile. Possible exposure to airborne asbestos fibers appears to be limited to the removal of old tiles and subsequent floor sanding or finishing.

CONSUMER CONTACT

Tile cement may be purchased by the consumer.

INFORMATION SOURCES

Chicago Mastic Co.

Rosemont, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Cheese-Making

DISCUSSION

Printed sources indicate that asbestos was used as a bedding material for bacterial spores used in the cheese-making industry. Researchers and association technical personnel stated that they knew of no such current application of asbestos.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product probably not intended for direct consumer use, however, end product intended for consumer use.

INFORMATION SOURCES

National Cheese Institute
Wisconsin Alumni Research
Foundation

Chicago, IL
Madison, WI

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Christmas Decoration "Snows"

DISCUSSION

Asbestos fibers mixed with mica particles were combined to form a glossy artificial snow for Christmas decorations. This snow was dusted on Christmas tree limbs, used in miniature snow scenes, and applied to Christmas tree bulbs. Product has been discontinued and replaced by aerosol spray foams.

Asbestos Concentration: Unknown
Method of Incorporation: Loose

SCENARIO FOR FIBER RELEASE

Application, use, and removal of decorations

CONSUMER CONTACT

The extent to which old ornaments decorated with product may still be in use is not known.

INFORMATION SOURCES

National Tinsel
Manufacturing Co.

Manitowoc, WI

U. S. Patent 2,821,802

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Cigarette Filters and Ash Retention Additives

DISCUSSION

Cigar and cigarette filters are devices for the removal of tars and other natural chemicals created by the burning of tobacco. Several sources refer to the use of asbestos as such a filtering material. Further alleged is the mixture of asbestos fibers with tobacco as an ash retention additive. Representatives of the major tobacco producer associations stated that asbestos is not used in cigarette filters nor is any purposely included in any tobacco product domestically. It was reported that the manufacturers of Kent cigarettes experimented with asbestos filters but the product was never marketed. Currently, filters are made of cellulose acetate.

Asbestos Concentration: Unknown
Method of Incorporation: Loose fibers or compacted in felt-like form.

SCENARIO FOR FIBER RELEASE

Burning or destruction of cigarette or cigar.

CONSUMER CONTACT

Tobacco products are widely used by consumers.

INFORMATION SOURCES

Cigar Association of America
Tennessee Eastman Co.
Tobacco Institute

Washington, DC
Kingsport, TN
Washington, DC

U. S. Patents 2,761,798 and 2,768,913

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Cigarette Lighter Wick

DISCUSSION

Respondents indicated that while asbestos thread may have been used in cigarette lighter wicks, this is presently not the case. Wicks are now cotton and/or fiberglass.

Asbestos Concentration: Up to 100%
Method of Incorporation: Thread

SCENARIO FOR FIBER RELEASE

Fraying, burning, or trimming

CONSUMER CONTACT

Cigarette lighters are widely used by consumers.

INFORMATION SOURCES

Ronson Corp.
Zippo Mfg. Co.

Woodbridge, NJ
Bradford, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Cloth (Asbestos)

DISCUSSION

Asbestos yarn is a blend of various grades of asbestos fibers and other materials. The fibers are carded into a parallel fiber mat. The mat is then compressed into a lap. Additional carding follows and individual strips of fiber called rovings are separated out. The rovings next proceed to spinning frames where they are twisted into yarn. The yarn is then sent to the weaving looms to be processed into cloth. The cloth is used to fabricate a wide variety of items.

Asbestos Concentration: 75% to 100%
Method of Incorporation: Woven

SCENARIO FOR FIBER RELEASE

In many cases, asbestos cloth is coated or impregnated with resins, elastomers or metals. Asbestos textile manufacturers stress that treatment of fabrics greatly inhibits the release of free asbestos fibers. However, untreated cloth may release free asbestos fibers if abraded.

CONSUMER CONTACT

Product designed for further processing; however, consumer could purchase.

INFORMATION SOURCES

Amatex Corp.
Raybestos-Manhattan, Inc.
Southern Asbestos Co.

Norristown, PA
North Charleston, SC
Charlotte, NC

U. S. Patents 3,271,186 and 2,681,870
 and 3,009,829

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Cord (Asbestos)

DISCUSSION

Asbestos cord comes in a wide variety of forms. Essentially it is composed of twisted or braided asbestos yarn. It may be treated or untreated. Typical uses include:

- Seals for high temperature gaskets
- Valve stem packings
- Insulation for glass handling tools
- Reinforcing for braided wall steam hose

Asbestos Concentration: Up to 100%
Method of Incorporation: Twisted or braided

SCENARIO FOR FIBER RELEASE

Cutting and abrasion of untreated asbestos cord could release airborne asbestos fibers.

CONSUMER CONTACT

Asbestos cord is used primarily in industrial applications.

INFORMATION SOURCES

Asbestos Textile Institute Pompton Lakes, NJ 1967

U.S. Patents 3,630,012 and 3,738,805

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT : Curling Irons

DISCUSSION

Published sources cite the use of asbestos in curling irons. However, respondents indicated that no asbestos is used in their products designed for human hair curling. Silicone impregnated glass fibers, mica, and ceramics are used as insulation.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Continental Products Co., Inc.
Pearl Duck, Inc.

Edison, NJ
Garden City, NY

ASBESTOS PRODUCT FACT SHEET

PRODUCT

Curtains (Fur Cleaning Rooms)

DISCUSSION

in fur cleaning sources refer to the use of asbestos curtains absorb particles. The ability of asbestos cloth to cation. contacts indicated that this usage was unknown to them.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven Cloth

SCENARIO FIBER RELEASE

Abandonment of cloth during dust removal

CONSUMER CONTACT

The product is not used in consumer environment; however, airborne asbestos could collect in the furs being cleaned and thus be transmitted to consumer environment.

INFORMATION SOURCES

Fur Information and
Fashion Council
General Fur Cleaning Co.
The Higbee Co.

New York, NY
New York, NY
Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Curtains (Seed Treating and Fumigating Rooms)

DISCUSSION

Rosato states that asbestos felt curtains are used in rooms where seeds are treated and fumigated in order to trap accumulated dust and foreign matter. Respondent indicated asbestos curtains are not used for this purpose.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion or destruction

CONSUMER CONTACT

Product not intended for consumer use.

INFORMATION SOURCES

American Seed Trade Association Washington, DC
Asbestos; Its Industrial Applications D. V. Rosato
Reinhold N. Y. 1959

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Curtains (Theatre)

DISCUSSION

Asbestos curtains are commonly fire code specified for school auditoria and theatres. The asbestos cloth used is currently impregnated to reduce fraying and air-borne asbestos release.

Asbestos Concentration:	Up to 100%
Method of Incorporation:	Woven cloth, presently treated, occasionally covered with other fabrics

SCENARIO FOR FIBER RELEASE

Abrasion or demolition

CONSUMER CONTACT

Product specifically intended for use in consumer environments.

INFORMATION SOURCES

M. Mauritzon and Co.

Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Custom Auto Body Filler

DISCUSSION

Published sources report that it is not uncommon for these body fillers to contain asbestos. Of those contacted only one indicated any current use of asbestos fibers.

Asbestos Concentration: 5%
Method of Incorporation: Thoroughly mixed in viscous matrix
which becomes hard after application.

SCENARIO FOR FIBER RELEASE

Sanding of hardened filler material

CONSUMER CONTACT

Product available for purchase by consumers.

INFORMATION SOURCES

A. L. Miles Fiberglass
and Plastic Supply
Oatey, Co.
Swiss Lab, Inc.

Houston, TX
Cleveland, OH
Solon, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Dish Towels

DISCUSSION

Published lists refer to asbestos cloth dish towels. Association and industry contacts were unaware of such an application.

Asbestos Concentration: Up to 95%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Tearing, abrasion

CONSUMER CONTACT

Product designed for consumer use.

INFORMATION SOURCES

American Textile Manufacturers
Institute
Cannon Mills, Inc.
J. P. Stevens & Co., Inc.

New York, NY
Kannapolis, NC
New York, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Drier Felt (Asbestos)

DISCUSSION

Asbestos drier felts are used in the paper industry to remove moisture from pulp sludge during the manufacturing process.

Asbestos Concentration: 85%
Method of Incorporation: Felting

SCENARIO FOR FIBER RELEASE

Possible release of fibers from drier felt under excessive wear or abrasion.

CONSUMER CONTACT

Product used in manufacture of consumer products

INFORMATION SOURCES

Asbestos Textile Institute

Pompton Lakes, NJ

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Drilling Fluids

DISCUSSION

Asbestos fibers are a vital constituent of drilling fluids or "muds" used in the drilling of oil and gas wells. "Mud" is pumped down through the drill pipe and back up through the annulus between the drill pipe and the well bore hole. Asbestos helps remove the heat created and acts as a lubricant. When the drilling is completed the mud is transported to a dumping area. Federal and state conservation agencies enforce stringent regulations over such disposal.

Asbestos Concentration: 5%
Method of Incorporation: Mixed

SCENARIO FOR FIBER RELEASE

Asbestos is added to the "mud" in a wetted granular form or as a coarse ground material. Further breakdown of the asbestos is to be expected during drilling. Dried "mud" could possibly release airborne asbestos fibers.

CONSUMER CONTACT

Drilling sites are not commonly near populated areas. Exposure to airborne fiber could occur at "mud" waste dumps.

INFORMATION SOURCES

Asbestos Information Association
Dearing Compressor and Pump Co.
Gardner-Denver Co.
Geo. Whalley Co.
Union Carbide Corp.
U. S. Patent 3,498,394

Arlington, VA
Youngstown, OH
Cleveland, OH
Cleveland, OH
Niagara Falls, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Electric Blankets

DISCUSSION

Industry lists refer to the use of asbestos insulation in electric blankets. The major manufacturer stated that since high temperatures are not involved asbestos is not used. Heating wires are encased in vinyl.

Asbestos Concentration:	Unknown
Method of Incorporation:	Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Northern Electric Co.

Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Felt

DISCUSSION

Non-woven asbestos felts are produced by a carding and pressing process. End uses include resin impregnated felts used for reinforcements in high and low pressure plastics, gaskets, basic reinforcement in asbestos tapes, secondary insulation in high temperature wire and cable, and asphalt impregnated roofing felts. See phenolic laminates, pianos and organs, and tape.

Asbestos Concentration: 100%

Method of Incorporation: Fibers compressed together

SCENARIO FOR FIBER RELEASE

Handling, abrasion, cutting or destruction of raw felt; extent of possible fiber release from impregnated felts unknown.

CONSUMER CONTACT

Raw felt not used in consumer environment; roofing felts installed by professionals in consumer environment.

INFORMATION SOURCES

Handbook of Asbestos Textiles
Asbestos Textile Institute

Pompton Lakes, NJ. 1967

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Filler In Glass

DISCUSSION

A published source cited the use of asbestos as a filler in glass. However, no asbestos containing glass product was identified.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Unknown

INFORMATION SOURCES

American Glassware
Association

Glass Container Manufacturers
Institute

Owens-Illinois, Inc.

Chicago, IL

Washington, DC

Toledo, OH

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Filtering Materials, Filters

DISCUSSION

Asbestos in various forms has been used as a filtering material for many years. The surface area per unit weight for asbestos is considerably greater than other fibers, thus much finer precipitates are retained. Asbestos filters may be found in the processing of wine, beer, soft drinks, alcoholic beverages, honey, oils, fats, and sugar as well as industrial products. The industry trend is away from the use of asbestos filters. The major supplier of filters has eliminated asbestos filters from his product line.

Asbestos Concentration: Varies
Method of Incorporation: Felt comprised of asbestos and other fibers

SCENARIO FOR FIBER RELEASE

Some experts believe that fibers could be released into the products being filtered.

CONSUMER CONTACT

Asbestos containing filters are not intended for consumer use; however, many products filtered with asbestos are marketed to consumers.

INFORMATION SOURCES

Cellulo Co.
Filter-Media Co.
Grefco Inc. (Dicalite Div.)
Johns-Manville Corp.

Fresno, CA
Houston, TX
Los Angeles, CA
Denver, CO

U. S. Patents 3,034,981
3,705,651
3,797,163.

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Padding (In Prison Cells, Mental Institutions Etc.)

DISCUSSION

Several product lists refer to this use of asbestos. However, industry and institutional sources indicated that these products are fabricated from cotton cloth and batting treated with flame retardants.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Abrasion, tearing

CONSUMER CONTACT

Product designed for use in consumer environment

INFORMATION SOURCES

County of Cuyahoga
Penal Industries, Inc.
Raybestos-Manhattan Corp.
State of Ohio
Auditor's Office
Penal Industries
Rehabilitation Services
Union Wadding Co.

Cleveland, OH
Atlanta, GA
Charleston, SC
Columbus, OH
Pawtucket, RI

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Paints

DISCUSSION

Allegedly asbestos fibers were added to certain paint formulations as a pigment adherence agent. Major industry sources indicated that this is not the current practice.

Asbestos Concentration: Unknown
Method of Incorporation: Thoroughly mixed in liquid

SCENARIO FOR FIBER RELEASE

Sanding or abrasion of old paint

CONSUMER CONTACT

Product directed to consumer market

INFORMATION SOURCES

Benjamin Moore & Co.
Desoto, Inc.
Fuller-O'Brien Corp.
PPG Industries, Inc.
Sherwin-Williams Co.
Union Carbide Corp.

Montvale, NJ
Des Plaines, IL
South Bend, IND
Pittsburgh, PA
Chicago, IL
Niagara Falls, NY

U. S. Patents 3,838,085 and 3,947,286

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Paints, Texture

DISCUSSION

There are two types of texture coatings used as decorative wall and ceiling finishes. One is interior paint with aggregate added to produce the textured effect. The second consists of limestone and other fillers with or without asbestos. This product is sold dry and pre-mixed.

Asbestos Concentration: 1 to 5%
Method of Incorporation: Thoroughly mixed in dry or wet matrix;
brittle when "set"

SCENARIO FOR FIBER RELEASE

Sanding, which is not normal use
Mixing dry product

CONSUMER CONTACT

Product widely used by consumers and by professionals
in the consumer environment.

INFORMATION SOURCES

A. T. Kearney Letter Report. To Consumer Products Safety
Commission Task 1008K Contract No. CPSC-C-77-0009,
Dated 9/21/77

U. S. Patents 3,677,988 and 3,947,286

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Paper (Asbestos)

DISCUSSION

Asbestos paper is a widely used product which may contain, in addition to asbestos fibers, cellulose, glass fiber, and sealers. Asbestos content may vary from 5% to nearly 100%. A common usage of asbestos paper is as an insulation in the electrical industry. Coarse grades are used in roofing felts. Latex-bound asbestos papers are used as underlayments for vinyl sheet flooring. Automobile engine head gaskets are made of asbestos paper and other laminates. See appliance Wiring, Felt, Millboard, Phenolic Caminates, and Sheet Flooring.

Asbestos Concentration: Up to 90%

Method of Incorporation: Fibers interlocked in paper form

SCENARIO FOR FIBER RELEASE

Possible fiber release could occur during any disruption of the integrity of the paper material.

CONSUMER CONTACT

Product generally undergoes further manufacturing steps.

INFORMATION SOURCES

Boise Cascade Corp.
Manning Paper Co., Div. of
Hammermill Paper Co.
Mead Corp., Specialty
Paper Div.

Beaver Falls, NY

Troy, NY

South Lee, MA

U. S. Patents	3,193,446	3,480,847
	3,269,889	3,654,073
	3,337,392	3,713,925

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Paving Material

DISCUSSION

Where extra strength and resistance to surface cracking may be required, asbestos short fibers may be added to asphalt paving materials.

Asbestos Concentration: 5% to 15%
Method of Incorporation: Thoroughly mixed in viscous matrix.

SCENARIO FOR FIBER RELEASE

Abrasion or leaching of paved surface.

CONSUMER CONTACT

Extent to which asbestos containing road surfaces are in use was not determined.

INFORMATION SOURCES

Johns-Manville Corp.

Denver, CO

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Phenolic Laminates

DISCUSSION

• This category includes a large group of industrial sheeting materials. Asbestos cloth as well as paper, cotton fabric, etc. serve as a structural element for phenolic resins. The sheeting is cut or stamped into a multitude of items, such as washers, bearings, spacers and motor vanes. Industry respondents reported that the trend is away from the use of asbestos in laminates.

Asbestos Concentration:
Method of Incorporation:

Up to 85%
Thoroughly encapsulated in
plastic matrix

SCENARIO FOR FIBER RELEASE

Abrasion, destruction

CONSUMER CONTACT

Asbestos phenolics are generally for industrial use; however they may serve as components of consumer products such as lawn care and home shop equipment.

INFORMATION SOURCES

General Electric Co.
Spaulding Fiber Co., Inc.
Westinghouse Electric Corp.

Fairfield, CT
Tonawanda, NY
Pittsburgh, PA

U. S. Patents 3,572,863 and 3,929,533

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Phonograph Records

DISCUSSION

Asbestos may have been used as a filler and strengthening agent in the manufacture of phonograph records at one time. Industry respondents reported that currently phonograph records are made exclusively of polyvinylchloride.

Asbestos Concentration: Unknown
Method of Incorporation: Fiber thoroughly mixed in hard matrix

SCENARIO FOR FIBER RELEASE

Needle wear, breakage

CONSUMER CONTACT

Product widely used in consumer environment

INFORMATION SOURCES

Columbia Records Corp.
Recording Industry Association
of America

New York, NY

New York, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Pianos and Organs

DISCUSSION

According to Rosato, asbestos felt was being used pianos. Representatives of a major piano manufacturer reported that no asbestos felts are used. Sound chambers in organs contain glass fibers. See Felt.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Products widely used in consumer environment

INFORMATION SOURCES

D. H. Baldwin and Company

Cincinnati, OH

Asbestos: Its Industrial Applications D. V. Rosato
Reinhold Publishing Corp., New York, NY 1959

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Pipe and Boiler Coverings

DISCUSSION

Asbestos in the form of millboard, tape, cloth and sprayed slurry is commonly used as an insulation on industrial pipes and boilers. Similar applications occur in homes and institutions.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven, pressed, slurry

SCENARIO FOR FIBER RELEASE

Abrasion and/or destruction of previously installed insulation

CONSUMER CONTACT

Demolition and replacement of old insulation, presence during installation of new boilers.

INFORMATION SOURCES

American Society of Heating Refrigerating and Air- Conditioning Engineers	New York, NY
Cleveland Plumbing and Heating Co.	Cleveland, OH
Johns-Manville Corp.	Denver, CO
Quiggin and Son, Inc.	Cleveland, OH
H. B. Smith Co.	Cleveland, OH
Vanderwist Plumbing and	Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Pond Liner

DISCUSSION

At least one manufacturer produces an asbestos-asphalt impregnated sheet material used as a pond and canal liner.

Asbestos Concentration: 4 to 15%
Method of Incorporation: Thoroughly mixed in a viscous matrix

SCENARIO FOR FIBER RELEASE

Leaching of asphalt matrix could release fibers into water.

CONSUMER CONTACT

Extent of pond liner use unknown.

INFORMATION SOURCES

Phillips Petroleum Co. Bartlesville, OK

U. S. Patents 3,864,157 and 3,885,068

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Pot Holders and Oven Mitts

DISCUSSION

Several trade lists contain names of manufacturers of pot holders or oven mits. All manufacturers contacted stated that asbestos was not used in their pot holders and mits. Generally they indicated that heat resistance requirements were not high enough to warrant the use of asbestos.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Tearing, abrasion

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Cannon Mills, Inc.
The Ironees Co.
Magla Products
Spring Mills, Inc.
J. P. Stevens & Co., Inc.

Kannapolis, NC
Philadelphia, PA
Irvington, NJ
Fort Mills, SC
New York, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Pottery

DISCUSSION

Industry lists refer to the use of asbestos as a filler in pottery. Industry and association sources indicate that although talc may be a common additive, asbestos is not used in pottery clay. Clays are sold in dry powder, wet, and fired condition. The talc may contain asbestos as a contaminate.

Asbestos Concentration: Unknown

Method of Incorporation: Fiber thoroughly mixed with other ingredients; before use, in dry state, fibers not "locked-in"; matrix viscous when wet; matrix brittle after firing.

SCENARIO FOR FIBER RELEASE

During mixing and clean-up of dry products; abrasion (not considered likely in normal use), breakage.

CONSUMER CONTACT

Products widely used in consumer environment

INFORMATION SOURCES

Hall China Co.

Nelson McCoy Pottery Co.

United States Potters Association

East Liverpool, OH

Zanesville, OH

East Liverpool, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Potter's Kilns (Home Hobby)

DISCUSSION

Manufacturers of hobbyist kilns reported that although some asbestos lined kilns were available to the consumer in the past, none are currently produced.

Asbestos Concentration: Unknown
Method of Incorporation: Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Harrop Ceramic Services Co.
Nova Corp. of Dubuque, Iowa

Columbus, OH
Dubuque, IA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT : Powder (Asbestos)

DISCUSSION

Asbestos powder is reported to be a rather specific designation for finely ground anthophyllite. Powder is used as a reinforcement in molded plastics and rubber.

Asbestos Concentration: 100%
Method of Incorporation: Loose fibers

SCENARIO FOR FIBER RELEASE

Agitation of loose fibers

CONSUMER CONTACT

Bulk industrial product

INFORMATION SOURCES

Delaware Asbestos and Rubber Co.
Powhattan Mining Co.

Philadelphia, PA
Baltimore, MD

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Pressure Cooker Gaskets

DISCUSSION

Published sources cite the use of asbestos in pressure cooker gaskets. However, respondents indicate that asbestos is not used in the gasket or in the over pressure plug of the pressure cooker.

Asbestos Concentration:	Unknown
Method of Incorporation:	Unknown

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

The Halle Bros. Co.
Major Appliance Company
National Presto
Industries, Inc.

Cleveland, OH
Cleveland, OH

Eau Claire, WI

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Pruning Paints and Sealers

DISCUSSION

Pruning paints and sealers are tar based products used to protect the pruned limbs and branches of trees from dessication and insect attack. It has been alleged that asbestos fibers are present in these products. However, respondents report that asbestos fibers are neither required nor used in pruning paints or sealers.

Asbestos Concentration: Unknown
Method of Incorporation: Fibers thoroughly mixed in semi-viscous matrix

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Product is intended for use by consumer and by professionals in consumer environment.

INFORMATION SOURCES

Walter E. Clark and Son, Inc.
Kendall Refining Co., Div.
Witco Chemical Corp.
Chas. H. Lilly Co.
Rockland Chemical Co., Inc.
Seymore Smith and Sons, Inc.

Orange, CT
Bradford, PA
Portland, OR
Caldwell, NJ
Oakville, CT

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Radiator (Home) Insulation

DISCUSSION

Sheet metal enclosures serve to protect, beautify and improve the heating efficiency of home and institutional radiators. The top cover was commonly packed with asbestos felt insulation. Industry sources indicate that asbestos has been replaced with fiberglass and fiberboard.

Asbestos Concentration: 100%
Method of Incorporation: Asbestos felt

SCENARIO FOR FIBER RELEASE

Abrasion during removal and cleaning; demolition

CONSUMER CONTACT

Product widely used in homes, schools, and other consumer environments.

INFORMATION SOURCES

Ace Radiator Enclosure
Co.
Kero Metals, Inc.

Cincinnati, OH
Carlstadt, NJ

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Radiator Sealant

DISCUSSION

Asbestos is included in the formulations of some automotive radiator sealants. The fibers serve to form a minute network at the area of the leak, thus sealing it.

Asbestos Concentration: 3%
Method of Incorporation: Mixed with liquid chemicals

SCENARIO FOR FIBER RELEASE

None identified.

CONSUMER CONTACT

Product directed to consumer market.

INFORMATION SOURCES

Bardahl Mfg. Corp.
E. I. DuPont De Nemours
Fre-Bar, Inc.
Garry Laboratories, Inc.

Seattle, WA
Wilmington, DE
Holly, MI
Tonawanda, NY

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Ranges

DISCUSSION

In the past asbestos was commonly used as an insulation in oven doors and chambers. Element wiring was enclosed in asbestos sleeves. Industry sources indicate that the use of asbestos has been virtually eliminated in recent years.

Asbestos Concentration: Up to 100%
Method of Incorporation: Millboard, Sleeving

SCENARIO FOR FIBER RELEASE

Abrasion during repair of range

CONSUMER CONTACT

These products are directed to the consumer market.

INFORMATION SOURCES

Caloric Corp.
Major Appliance Consumer
Action Panel

Topton, PA
Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Refrigerant Cement

DISCUSSION

Various types of cements containing asbestos are used as sealants in commercial refrigeration units, display cases, etc. These sealants remain in a semi-viscous condition.

Asbestos Concentration:	5 to 45%
Method of Incorporation:	Fiber thoroughly mixed in semi-viscous matrix

SCENARIO FOR FIBER RELEASE

Release not considered likely

CONSUMER CONTACT

Amount of product used in consumer environment not established.

INFORMATION SOURCES

Virginia Chemicals, Inc.

Portsmouth, VA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Roof Coating

DISCUSSION

Product designed to form a watertight seal for the roofs of industrial plants, warehouses, and other flat roofed structures. Additionally, products within this group are used for the repair and patching of previously installed roofs. These products consist primarily of an asphalt base with additions of raw asbestos fibers, various rock flours and solvents. Roof coatings are generally ductile in nature affording them the required expansion properties and resistance to cracks due to weathering. Aluminum powder may be added as a reflectant to minimize heat absorption.

- Asbestos Concentration: 3 to 25%
- Method of Incorporation: Fibers thoroughly mixed in viscous matrix

SCENARIO FOR FIBER RELEASE

Roof coatings are formulated to remain somewhat flexible, therefore fiber release during abrasion or demolition is not likely.

CONSUMER CONTACT

Liquid roof patching cements and coatings are packaged for consumer use.

INFORMATION SOURCES

Mortell Co.
Tremco Manufacturing Co.

Warren, MI
Cleveland, OH

U.S. Patents 2,916,908
3,795,525

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Rotisserie Broilers

DISCUSSION

Asbestos millboard is used by one manufacturer as an insulation between broiling chamber and the rotisserie motor. This is not a common practice and this manufacturer stated that this particular model line was being discontinued.

Asbestos Concentration: 85 to 95%
Method of Incorporation: Millboard

SCENARIO FOR FIBER RELEASE

Dismantling of unit, removal, and abrasion of the millboard

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Hamilton Beach Div.
Scovill, Inc.
McGraw-Edison Co.
North American Phillips Corp.
Sun-Chief Electronics, Inc.

Waterbury, CT
Columbia, MO
New York, NY
Winstead, CT

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Screw Fixing Compounds

DISCUSSION

Published sources cite the use of asbestos in screw fixing compounds. However, no asbestos containing screw fixing compounds could be identified.

Asbestos Concentration: Unknown
Method of Incorporation: Fibers thoroughly mixed in matrix

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Unknown

INFORMATION SOURCES

Amerace Corp.
Loctite Corp.

Union, NJ
Newington, CT

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Sets and Equipment: Movie, Theatre, and T.V.

DISCUSSION

Because of special effects using extreme heat, cold and noise, it has been alleged that studios used asbestos products, e.g., cob-webs, insulation for "set" fires, artificial snow, acoustical noise barriers and shields for hot stage lights. An industry source, however, asserted that asbestos was eliminated because of OSHA pressure, substituting fire bricks for "set" fires, gypsum for snow, rubber base spray for cob-webs and non-asbestos acoustical tile for sound, etc.

Asbestos Concentration: Unknown
Method of Incorporation: Various

SCENARIO FOR FIBER RELEASE

Various

CONSUMER CONTACT

Studios are not considered consumer environment.

INFORMATION SOURCES

Metro Goldwyn Mayer, Inc.

Culver City, CA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Shorts (Asbestos)

DISCUSSION

Asbestos shorts and floats are the end-products in asbestos milling. These shorter light fibers are used in: vinyl asbestos tile, plastics, asphalts, and adhesives. The light fibers are combined into the product during manufacture.

Asbestos Concentration: 100%
Method of Incorporation: Fibers are loose

SCENARIO FOR FIBER RELEASE

Handling product; mixing with other raw materials

CONSUMER CONTACT

Product is not intended for consumer use; consumers may be able to purchase it through industrial outlets.

INFORMATION SOURCES

Asbestos: It's Industrial Applications, D. V. Rosato
Reinhold Publishing Corp., New York, NY 1959
Handbook of Asbestos Textiles
Asbestos Textile Institute Pompton Lakes, NJ

U. S. Patent 3,928,060

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Slow Cookers

DISCUSSION

Asbestos insulation is commonly used to protect the thermostat unit from excessive heat.

Asbestos Concentration: 65 to 75%
Method of Incorporation: Woven cloth, felt, paper

SCENARIO FOR FIBER RELEASE

Dismantling of unit and abrasion of insulation material which is not considered a likely occurrence in normal use.

CONSUMER CONTACT

Product is designed for consumer use. Consumer might attempt to repair unit.

INFORMATION SOURCES

American Electric Co.
Grandinetti Products, Inc.

Culver City, CA
Lynwood, CA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Smoker's Bib

DISCUSSION

One manufacturer of asbestos cloth recommends the use of his specially treated fabric for smokers' bibs for the aged and handicapped. The manufacturer indicated that this item had not yet been produced domestically.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Tearing, abrasion

CONSUMER CONTACT

Product designed for consumer use

INFORMATION SOURCES

Southern Asbestos Co.

Charlotte, NC

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Stoves (Coal and Wood Burning)

DISCUSSION

An asbestos fire door gasket is sometimes used in wood and coal burning stoves.

Asbestos Concentration: Up to 100%
Method of Incorporation: Woven

SCENARIO FOR FIBER RELEASE

Degradation or abrasion of insulation

CONSUMER CONTACT

Product used in consumer environment

INFORMATION SOURCES

Dornbeck Furnace and Foundry Co.
Locke Stove Co.
Nelson Industries

Eastlake, OH
Kansas City, MO
Pittsburgh, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Tape

DISCUSSION

Woven asbestos tape of various sizes is used as a wrapping around hot pipes. Usage is primarily industrial but may be found in residential and institutional sites.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven

SCENARIO FOR FIBER RELEASE

Fraying, sloughing, demolition

CONSUMER CONTACT

Extent of use in consumer environment unknown

INFORMATION SOURCES

Raybestos-Manhattan, Inc.

Trumbull, CT

U. S. Patent 2,523,022

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Tape Joint Cement

DISCUSSION

Tape joint cement is used to conceal joints in dry-wall construction. Some manufacturers have included asbestos in their formulations to improve the working properties of the product. Related products include spackling materials in dry or premixed form.

The CPSC ban on the manufacture of asbestos containing compounds went into effect January 15, 1989-1978 (16 CFR 1304).

Asbestos Concentration: 0.25 to 5%

Method of Incorporation: Fibers thoroughly mixed with other ingredients; in dry form fibers are not "locked-in"; matrix viscous when wet; matrix brittle after "set".

SCENARIO FOR FIBER RELEASE

Mixing dry product with water; sanding hardened product and demolition

CONSUMER CONTACT

Products widely used by consumers and professionals in the consumer environment.

INFORMATION SOURCES

"Economic Impact Assessment of The Proposed Ban of Asbestos Containing Patching Compounds", A. T. Kearney, Inc., October, 1977.

U. S. Patent 3,900,434

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Tent Grommets

DISCUSSION

Some large wall tents are fabricated to accomodate stoves. An asbestos grommet is sewn around the stove pipe aperture to protect the canvas from the heat of the pipe.

Asbestos Concentration: 75 to 99%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion, tearing

CONSUMER CONTACT

Product designed for consumer use.

INFORMATION SOURCES

Southern Asbestos Company
Canvas Specialty
Manufacturing Co.

Charlotte, NC
Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Thermal Insulation

DISCUSSION

Various felts containing wire inserted asbestos yarn and glass fibers, supplied in large rolls, are used as insulation for high temperature machinery and equipment such as turbines, boilers, feed pumps, and steam lines.

Asbestos Concentration: Up to 95%

Method of Incorporation: Yarn loosely formed with glass fibers

SCENARIO FOR FIBER RELEASE

Cutting, abrasion, demolition

CONSUMER CONTACT

Product not used in consumer environment

INFORMATION SOURCES

Southern Asbestos Co.

Charlotte, NC

U. S. Patent 3,923,535

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Thermal Insulation, Spray

DISCUSSION

Prior to 1973 a slurry of asbestos and water was sprayed on the beams and columns in large buildings to protect structural members in the case of fire.

Asbestos Concentration: Up to 99%
Method of Incorporation: Fibers bound together in friable matrix

SCENARIO FOR FIBER RELEASE

Physical contact with product; repair; demolition

CONSUMER CONTACT

Used in construction occupied by consumers

INFORMATION SOURCES

Johns-Manville Corp.
Yale University

Denver, CO
New Haven, CT

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CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Toasters

DISCUSSION

In addition to asbestos encased internal and external wiring (discussed under Appliance Wiring) it was common for the element mounting boards to be made of a compressed millboard. Respondents all indicated that for some years alternate materials such as mica have replaced asbestos board. Two indicated that internal asbestos clad wiring is still used.

Asbestos Concentration: Up to 95%
Method of Incorporation: Millboard; see also Appliance Wiring

SCENARIO FOR FIBER RELEASE

Abrasion of element board or wiring during cleaning and repair

CONSUMER CONTACT

Asbestos containing products are still in widespread use.

INFORMATION SOURCES

General Electric Co.
Scovill Mfg. Co.
Hoover Co.
Sun-Chief Electronics Inc.
McGraw-Edison Co.
Proctor-Silex

Fairfield, CT
Waterbury, CT
North Canton, OH
Winsted, CT
Elgin, IL
Philadelphia, PA

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Tooth Brushes

DISCUSSION

The patents (cited below) claimed the uniqueness of an asbestos cloth pad as a substitute for bristles. The patent was not assigned to any dental product manufacturer, nor could any actual manufacturer of this product be identified.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven

SCENARIO FOR FIBER RELEASE

Abrasion

CONSUMER CONTACT

Product intended for consumer use

INFORMATION SOURCES

U. S. Patent 1,729,167
U. S. Patent 1,729,168

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Welders' Headgear

DISCUSSION

Items of safety equipment used under welders' helmets.
This category includes berets, beanies, caps, hats, and hoods.
See Safety Equipment.

Asbestos Concentration: 75 to 100%
Method of Incorporation: Woven cloth

SCENARIO FOR FIBER RELEASE

Abrasion, destruction

CONSUMER CONTACT

While primarily a product used in the work place, it is possible for consumer to purchase the product and use it in the consumer environment.

INFORMATION SOURCES

Singer Safety Products, Inc. Chicago, IL

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Welding Electrodes

DISCUSSION

Welding Electrodes are commonly manufactured with a flux coating. Asbestos is frequently added to the flux to enhance adherence and continuity of the weld bead.

Asbestos Concentration: 10% or less
Method of Incorporation: Mixed in slurry, then baked.

SCENARIO FOR FIBER RELEASE

Dust arises from the melted flux during the welding operation. This dust may contain asbestos. Respondents reported that electron microscope investigations showed the asbestos no longer to be fibrous in nature. Sanding or filing the electrode could release dust.

CONSUMER CONTACT

Welding rods are sold to consumers.

INFORMATION SOURCES

Air Reduction Corp.
Cabot Corp. (Stellite Div.)
Hobart Bros. Co.
Lincoln Electric Co.

Montvale, NJ
Kokomo, IN
Troy, OH
Cleveland, OH

CPSC ASBESTOS PRODUCT FACT SHEET

PRODUCT Wicks for Oil Burning Apparatus

DISCUSSION

Published sources cite the use of asbestos in wicks for oil burning apparatus. However, no asbestos containing product could be identified. Wicks used in kerosene lamps, smudgepots, hurricane lanterns, oil burning stoves and other consumer items are made of cotton braid.

Asbestos Concentration:	Up to 100%
Method of Incorporation:	Cloth

SCENARIO FOR FIBER RELEASE

Unknown

CONSUMER CONTACT

Products used in consumer environment

INFORMATION SOURCES

Asbestos Weaving Co.
R. E. Dietz Co.
Wm. E. Hooper and Sons Co.

Clinton, ME
Syracuse, NY
Baltimore, MD