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SALES:

Denies direct sales to Long Beach Naval Shipyard; Admits sales to Navy.

Sold to its distributor, William Lane Co. of San Francisco, sometime between 1940 and 1970.

Was not a party to any relabeling agreement.

	GROSS SALES OF ASBESTOS PRODUCTS	PERCENTAGE OF TOTAL GROSS SALES
1960	$4,226,000	36
1961	$4,023,000	39
1962	$2,962,000	20
1963	$1,957,000	9
1964	$1,037,000	4
1965	$ 830,000	2
1966	$ 534,000	1
1967	$ 556,000	1
1968	$1,054,000	2
1969	$ 893,000	1
1970	$ 275,000	.37

MEMBER OF ATI:

Former Member

WORKERS COMPENSATION CLAIMS:

No records of any claims from 1930 to 1965

QPL:

Yes.

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NAME:

UNARCO

PRINCIPLE PLACE OF BUSINESS:

Chicago, Illinois

CORPORATE HISTORY:

Purchased assets and assumed liabilities of Union Rubber and Asbestos Co. Sold Unibestos product line to Pittsburgh Corning on July 1, 1962.

PRODUCTS:

Has not manufactured asbestos products since 1970. For list of products, refer to Exhibit "A".

MINED OR MILLED:

No

LOCATION OF MANUFACTURING PLANTS:

Unibestos pipecovering and block manufactured at Cicero, Illinois; Patterson, New Jersey; McGregor, Texas; and Bloomington, Illinois. (Unibestos pipecovering produced since 1936; unknown when Unibestos block first produced.) Insubestos manufactured in Marshville, North Carolina since 1940's.

SOURCE OF RAW MATERIALS:

Chrysotile from Canada.

Amosite from Cape Asbestos Company of South Africa.

Purchase chrysotile from other producers.

Purchased 500 short tons of amosite fiber from GSA in 1969.

Purchased 1,282 bags of amosite from GSA in 1969.

REASON FOR DISCONTINUING PRODUCTS:

Economic reasons. Wanted to get into metal fabrication due to greater return.

FIRST KNOWLEDGE OF HAZARDS:

Late 1960's

FIRST LABELING:

Late 1960's

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UNARCO INDUSTRIES

The following materials were manufactured previous to 1940 and were continued through April, 1970 unless otherwise noted:

Unibestos Pipe Insulation and Block; this product was discontinued in 1963 when the entire product line was sold to Pittsburgh Corning Corporation. The product is composed of amosite asbestos fiber bound with a silicious material (diatamaceous earth).

Insubestos Felt; a thermal insulating blanket composed primarily of amosite asbestos woven with an asbestos yarn reinforced with copper.

Unarcoboard; this product is a calcium silicate based material with approximately 15% amosite fiber, which is introduced for reinforcement. Production of this material began in 1958.

Novenstone; this product is a lace-on insulation composed of woven asbestos Neoprene coated jacket with an insulating filler woven from amosite asbestos fiber.

Insutape; this product is a wrap-on or spiral applied insulation medium, composed of a woven asbestos tubular jacket filled with asbestos rovings. This product is supplied with or without a Neoprene coating.

Insutube; this is a slip-on insulation consisting of a braided asbestos core, fibrous glass insulating medium and a braided asbestos jacket. This product is supplied with or without a Neoprene coating on the exterior jacket.

Insulating cements; these products are high temperature insulating cements which were manufactured until 1959 and were composed of amosite asbestos fiber and clay filters.

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UNIBESTOS PIPE INSULATION AND BLOCK: This product was discontinued in 1962 when the entire product line was sold. The product is composed of amosite asbestos fiber bound with a silicious material (diatomaceous earth).

INSUBESTOS FELT: A thermal insulating blanket composed primarily of amosite asbestos woven with asbestos yarn reinforced with copper.

UNARCOBOARD: This product is a calcium silicate based material with approximately 15% amosite asbestos fiber, which is introduced for reinforcement. Production of this material began in 1958.

WOVENSTONE: This product is a lace-on insulation composed of woven asbestos Neoprene coated jacket with an insulating filler woven from amosite asbestos fiber.

INSUTAPE: This product is a wrap-on or spiral applied insulation medium, composed of a woven asbestos tubular jacket filled with asbestos rovings. This product is supplied with or without a Neoprene coating.

INSUTUBE: This is a slip-on insulation consisting of a braided asbestos core, fibrous glass insulating medium and a braided asbestos jacket. This product is supplied with or without a Neoprene coating on the exterior jacket.

EXHIBIT "A"

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UNARCO ASBESTOS CLOTH (Catalog #1, #2)

Description: woven from asbestos yarn - Yarns are made from long-fibered Chrysotile asbestos - thru process make non-twisted strands (rovings) then spun to produce yarn. Wire may be added or several yarns twisted together (plying) for stronger yarns. known for incombustibility and thermal stability. different types and grades - metallic and non-metallic
Sizes: generally widths of 36", 40" and 60" in standard rolls of 50 or 100 lineal yards
Unarco No. 848 for Navy Specifications
Unarco No. 810 for Industrial Specifications
Use: fire blankets, conveyor belts, collection bags

UNIBESTOS PIPE INSULATION (Catalog #3, #6, #7, #8)

Description: almost entirely of Amosite asbestos fibrous structure in felted or laminated form
single-layer, all purpose
refactory-coated surface
with or without canvas cover
Sizes: from 1/2" - 24" diameter pipe size, in 3 ft. lengths
1 - 5" thickness
Use: thermal and acid resistant, single layers good for ships and etc. where space is at a premium
No. 750 - for temp. up to 750 F
No. 1200 - for temp up to 1200 F (Cat. #8)

Unibestos Copper Water Tube Insulation (Catalog #3)
Description: outside diameter is 1/8" larger than copper tubing
Size: 1/2 - 6" tubing size
1 - 3" thickness

UNIBESTOS BLOCK INSULATION (Catalog #6, #7, #8)

Description: Unibestos in sheets and blocks
Sizes: 36 x 36", 18 x 36", 12 x 36", 6 x 36", 6 x 18"
3/4" - 4" thickness
Use: No. 1200 - 1200 F
No. 1800 - 1800 F

SUPER UNIBESTOS PIPE COVERING AND BLOCK INSULATION (Catalog # 6)

Description: similar to standard but for high temp. & low weight
Amosite asbestos fibre blended with calcined diatomaceous earth and bonding ingredients in felt and laminated form
Sizes:
Use: as inner layer with outer layer of standard Unibestos when extreme temps.

MINERAL FIBER BLOCK INSULATION (Catalog #3)

Description: dry-type insulation, all purpose,
made from base of high temperature mineral fiber
in a "dead cell" structure
Sizes: 18 and 36" length
6 and 12" wideth
1 - 4" thickness in 1/2" increments
Use: full range temp.

UNARCO INSULATIONS FOR COLD PIPES AND TUBING (Catalog # 5)

Description: a. Unarco Type H - hairfelt insulation, asphalt-laminated craft paper, Neoprene- coated woven asbestos jacket
b. Unarco Type SF - amosite asbestos, Saran plastic film cemented between outer jacket and insulation
Sizes: 1 and 1 1/2" thick, 3/4" and up for tubing sizes
36" length plus overlap
Use: for airconditioning lines

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WOVENSTONE PIPE COVERING (Catalog #5) (Catalog #6)

Description: all asbestos fibre held by lattice braid in all asbestos cloth jacket 1/16" thick - waterproofed
Sizes: 1" thick in 3' lengths
Use: for curved piping up to 500 F

UNARCO TAILORED-TO-FIT INSULATIONS (Catalog #4) (Cat. #8)

Description: four types
1) Asbestos and glass fibers in a woven insulating felt
2) Asbestos flange cover
3) Removable stop-valve cover of Unibestos insulation with asbestos jacket
4) Turbine blankets using glass cloth and fibrous glass insulation

UNARCO UNIBESTOS FELT (Catalog #5) (Catalog #6)

Description: blanket of woven Amosite Asbestos Fiber - heavy weft of Amosite with warp of brass wire inserted yarn
Type A and Type B (same as A but with enclosed in cotton muslin and waterproofed) Navy Specification - Unarco 878, 850
Size: 60" x 50' rolls
A - 3/4 - 1 1/2" thick
B - 3/4 - 1" thick
Use: A - high temp. & irregular surfaces & vibration
B - cold water pipes

SUPER UNIBESTOS FELT (Catalog #6)

Description: instead of Amosite fibers - rovings are of processed mineral wool
Sizes: 25' roll 40" wide 1 1/2" thick
Use: apply with Standard for higher temp. 750 - 1000 F
flat or curved surfaces

UNARCO INSULATING BLANKETS (Catalog #6)

Description: mattress type construction of 97% pure asbestos cloth filled with Amosite fibre - quilted with wire-inserted 97% pure asbestos sewing twine (Monel metal wire)
Sizes: 1 - 2 1/2" single layer thick
3 - 4 1/2" single and double layer thick
any size and shape
Use: for unsual contours and where frequent removal and re-application

SUPER UNIBESTOS BREAKDOWN BLANKETS (Catalog #6)

Description: felt of strands of mineral wool interlaced with 97% pure asbestos yarn reenforced with Monel metal wire cover of 97% pure asbesots yarn reenforced with Monel metal wire - quilted
Size: 1 1/2" thick, single only
Use: same as insulating blankets

UNARCO METAL-MESH BLANKETS (Catalog #4, #8)

Description: fibrous glass with wire mesh, metal lath or wire screen on sides
No. 1000 (1000 F) uses white glass wool blanket
No. 500 (500 F) glass fibers lightly bonded with resinous binders
Size: 24 x 48" and 24 x 96"
1 - 6" thick

UNARCO FLEXIBLE INSULATIONS (Catalog #4) (Cat. #8)

Use: on small pipe and tubing where rigid insulations impractical

INSUTAPE (Cat. #4) (Cat. #5) (Cat. #6)

Description: long fibered asbesots rovings, enclosed in tubular, woven asbestos jacket, exposed surfaces heavily coated with Neoprene, which is resistant to abrasion , moisture, etc.
Sizes: for 3/8 - 3 1/2" pipe sizes
1 x 3/16" thru 4 x 1" widths and thicknesses
Use: insulating curved, bent or difficult-to-reach pipes on steam and Diesel locomotives, wrap on

SUPER INSUTAPE (Cat. #4)

Use: for larger piping - plain or waterproofed

WOVENSTONE (Cat. #4)

Description: lace on insulation of interlocked Arosite asbestos fibers (blanket form) enclosed in Neoprene coated, waterproofed asbestos jacket, V-type sealing lap woven into jacket
Sizes: 1 - 2" thick, 36" lengths plus 1 1/2" overlap
Use: railroad insulations

INSULUBE (Cat. #4) (Cat. #5)

Description: slip on insulation of braided asbestos inner tubing in fibrous glass insulation, Saran vapor barrier, outer-jacket braided asbestos tubing, Neoprene coated
No. 670 - uncoated outer jacket
No. 671 - jacket coated
No. 681 - for ice water lines
Sizes: 1/2" thick and 1/4 - 2" tube size
No. 681 - 3/8 - 1 1/8" copper pipes

THERMAL INSULATION TAPE (Catalog #6)

Description: 97% pure asbestos yarn for up to 850 F
Navy Specification - Unarco No. 6007

UNIBESTOS WATERPROOF PLASTIC COATING (Catalog #6)

Description: asphaltic base, plastic compound for coatings over Standard or Super Unibestos Insulations
2 grades - for not too low temp. and temp. below freezing

UNARCO CEMENTS (Catalog #3, #4, #8) (Cat. #6)

Unarco No. 10, Multi-Purpose Cement: high asbestos content - for insulating and finishing

Unarco No. 20, Fireproofing Cement: unusally high percent asbestos and mineral wool fiber - for fireproofing structural steel

Unarco No. 50, Finishing Cement: white Chrysotile asbestos - for permanent base for lead, aluminum, etc.

Unarco No. 175, Insulating Cement: for up to 1800 F

Unarco No. 330, Insulating Cement: all-purpose, mixture of mineral wool fiber and Arosite long-fiber, and rust inhibitor

Unarco No. 430, Unibestos Insulating Cement: general purpose

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UNARCO ASBESTOS PACKINGS - raw asbestos fibre processed into yarns and fabrics (Catalog #1) (Cat. #8)

I. Square Braided, Plaited Asbestos packings

A. Unarco Style No. 119
Description: Square braided, plaited asbestos packing yarns or rovings braided together, each yarn lubricated with viscosity compound and graphited
Sizes: 1/8" to 1/2" in 1 and 5 lb. spools or 25 or 50 lb. reels
5/8" to 1" in 5 lb. spool or 25 or 50 lb. reels
Use: for high or medium speed rotating shafts

1. Unarco Style No. 120
Description: made with brass wire inserted asbestos yarns

2. Unarco Style No. 110
Description: packing dry without lubrication and graphite

B. Unarco Style No. 193
Description: blue asbestos acid resisting packing, plaited 100% blue asbestos yarn, lubricated and graphited
Sizes: 3/16" thru 1/2" on 1 and 5 lb. spools and 25 or 50 lb. reels
5/8" thru 1" on 5 lb. spool or 25 or 50 lb. reels
Use: where acid conditions encountered

1. Unarco Style No. 192
Description: caulking material, same as No. 193 without lubricant or graphite

C. Unarco Style No. 117
Description: braided copper packing, plaited braid from soft annealed copper wire
Sizes: 1/4" thru 1" coils and 25 or 50lb. reels
Use: as top, bottom or end rings

D. Unarco Style No. 1122 S. O.
Description: braided high temp. asbestos packing of AAA-Grade asbestos yarn (95% min. asb. content) reinforced with brass wire, lubricated and treated with Flake Graphite
Sizes: 1/4" to 1 1/2" square. in rings, coils, reels
Use: extreme working conditions and expansion and ball joints

II. Braid over Braid Asbestos Packing

A. Unarco Style No. 1105
Description: square braid over braid asbestos packing
Sizes: 1/8" thru 1/2" in 1 and 5 lb. spools, 25 or 50 lb. reels
5/8" thru 1" on 5 lb. spools, 25 or 50 lb. reels
Use: centrifugal pumps and reciprocating rods

1. Unarco Style No. 1106
Description: without lubrication and graphite

B. Unarco Style No. 350
Description: hot oil packing, square braid over braid asbestos dense, high quality asbestos yarns treated with heat-resistant compund and graphite coated
Sizes: 1/8" thru 1/2" on 1 and 5 lb. spools, 25 or 50 lb. reels
5/8" thru 1" on 5 lb. spools and 25 or 50 lb. reels
Use: for petroleum products at high temps. and pressures

C. Unarco Style No. 143
Description: gasoline packing, square braid over braid asbestos, impregnated with solvent resistant lubricant
Sizes: 1/8" thru 1/2" on 1 and 5 lb. spools, 25 or 50 lb. reels
5/8" thru 1" on 5 lb. spools, 25 or 50 lb. reels
Use: for petroleum solvents

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(Catalog #1)

III. High Pressure Packings

A. Unarco Style No. 125
Description: red rubber backed, frictioned asbestos cloth wrapped over block of asbestos cloth, impregnated with glycerine lubricant and coated with graphite and glycerin compound
Sizes: 3/8" to 1 1/4" coils
Use: for valves, rods, compressors, pumps

1. Unarco Style No. 152
Description: red rubber center
Sizes: 3/8" to 1 1/4"

2. Unarco Style No. 102
Description: solid wound asbestos cloth without rubber core
Sizes: 3/8" to 1 1/4"

3. 1/8" to 5/16" braided without core or backing

B. Unarco Style No. 166
Description: "unitallic" semi-metallic - wedge shaped metal parts attached to asbestos cloth channel
Sizes: 3/8" thru 3/4" in spirals
Use: anti-friction wearing surface with steam or petroleum

IV. Asbestos Gasketing Tape

A. Unarco Style No. 705
Description: frictioned asbesotos cloth, folded metallic gasketing tape
Sizes: widths 1" to 3"
thicknesses 1/8" to 1/4" and in square cross sections 3/8" and up
Use: for service against steam pressure

1. Unarco Style No. 707
Description: for where a non-metallic material is required

B. Unarco Double Seal
Description: metallic and non-metallic tapes, plain, frictioned or graphited
Sizes: thicknesses 1/16" and up
Use: for around studs or bolts for double seal

V. Asbestos Rope

A. Unarco Style No. 230 or double braid
Description: single braid over twisted asbestos wick core up to 3/4" thick
Sizes: 3/8" thickness and up, 25 or 50 lb. reels
Use: gasket material for furnace doors, etc. and food machinery

1. Unarco Style No. 114
Description: firmer rope, solid braid over braid
Sizes: 1/8" thru 1" on 25 or 50 lb. reels

B. Unarco Style No. 084
Description: asbestos rovings tightly twisted together to size
Sizes: 3/8" thru 2" on 25 or 50 lb. reels
Use: packing around fire doors, or caulking material

1. Unarco No. 078
Description: twisted asbestos wick, smaller and softer
Size: 1/4" thickness on 1/4, 1/2, and 1 lb. balls

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(Cat. 3 #1)

INSUTAPE

Description: long fibered asbestos rovings, enclosed in tubular, woven asbestos jacket, exposed surfaces heavily coated with Neoprene, which is resistant to abrasion, moisture, etc.

Sizes:

PIPE SIZE	WIDTH AND THICKNESS OF INSUTAPE SIZES				
	1" x 1/8"	1 1/16" x 1/16"	2" x 1/8"	2 1/2" x 1/8"	4" x 1/8" (1)
1/2"	3.00 ft.	1.63 ft.	1.37 ft.	—	—
3/4"	3.42 ft.	1.94 ft.	1.60 ft.	1.36 ft.	—
1"	4.00 ft.	2.33 ft.	1.92 ft.	1.79 ft.	—
1 1/4"	4.73 ft.	2.83 ft.	2.28 ft.	2.11 ft.	—
1 1/2"	—	3.53 ft.	2.83 ft.	2.57 ft.	2.25 ft.
1 3/4"	—	4.01 ft.	3.20 ft.	2.81 ft.	2.46 ft.
2"	—	4.83 ft.	3.83 ft.	3.43 ft.	2.87 ft.
2 1/2"	—	—	—	4.06 ft.	3.24 ft.
3"	—	—	—	4.83 ft.	3.76
3 1/2"	—	—	—	5.46 ft.	4.18 ft.

Use: insulating curved, bent or difficult-to-reach pipes on steam and Diesel locomotives, wrap on

WOVEN ASBESTOS LISTING TAPE

Description: two basic types - non-metallic and metallic
woven from long-fibered Chrysotile asbestos
metallic has brass wire inserted in each strand of yarn
Unarco Style Nos. 619, 620, 621, 612, 603, 630, 631, 636

Sizes: Widths range from 3/4" to 6"
Thicknesses range from 1/32" to 1/4"
100 ft. rolls

Use: thermal insulation, flame-proofing, packings, gaskets or fabricated into brake linigs, conveyor belting, mechanical packing

ASBESTOS BRAIDED TUBING

Description: made from yarns of long-fibered Chrysotile asbestos
braided into seamless sleeve
may be waterproofed with neoprene rubber coating
made of Metallic yarn available

Sizes: inside diameters range from 1/16" to 2"
single wall thickness is 1/16"
double-thick walls are 1/8"

Use: jacketing for medium-temp. tubing, cables, other conductors for fire protection and resistance to abrasion

ASBESTOS LAP

Description: carded Chrysotile asbestos fibers blended with organic fibers, felted, non-twisted form
consists of 1 1/4" individual ribbon-like slivers
available in Underwriters', AA, A and AAA Grades asbestos content with various iron-content

Sizes: 3-8 sliver widths rolled into 13" to 14" diameters

Use: electric wire and cable industry insulating

ASBESTOS ROVING

Description: non-twisted strand of carded Chrysotile asbestos fibers with cotton fibers and cottom thread core. Underwriters' or A-Grade asbestos content. Density from soft and bulky to firm and compact

Sizes: 5,6,7,8,10,12, and 14 cut.

Use: electrical insulation for wires, cords, cables, etc.

1. Unarco Heater Cord Roving
Description: with or without cotton core - Underwriters Grade asbestos only
Size: 5, 5 1/2, 6, 6 1/2, 7, 7 1/2, or 8 cut
Use: efficient dielectric insulator

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(Cat g fl)

ASBESTOS CORD

Description: made from long-fibered Chrysotile asbestos converted into yarns which are twisted together to form cord
available with wax or starch for smoother surface
Commercial, Underwriters or AA grade
with or without brass wire
Sizes: from 1/16" to 3/8" diameters
Use: sewing thread, insulations, packings, cords in contact with flame, etc.

ASBESTOS WICK

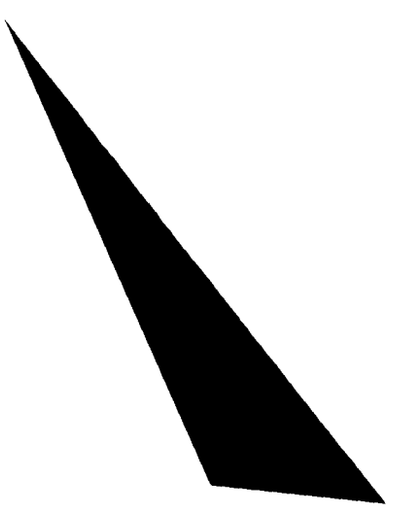
Description: Unarco Style No. 078
Chrysotile asbestos rovings twisted together
usually Commercial Grade, available in grades of asbestos-content
Size: 1/4" diameter
Use: packing, sealing, calking

ASBESTOS ROPE

Description: Unarco Style No. 084
twisted strands of Unarco Asbestos Wick
Commercial Grade - other grades can be furnished
Size: from 3/8" to 2" diameters
Use: sealing, filling, covering, packing, gasketing, caulking

WOVENSTONE WIRE-WOVEN WICKS

Description: woven Chrysotile asbestos fibers with inserted brass wire
Sizes: 7/8, 1, 1 1/4, 1 3/8, and 1 1/2" widths
1/16" thick
5 1/2, 6 and 100 foot rolls
Use: oil-burner wicking, range burners, heaters and wickless oil stoves



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