

EXHIBIT "A"

ASBESTOS STUDY FOR SABINE

Toxicity

- Can Cause - Asbestosis, Lunger Cancer, Mesothelioma

- TLV's, Chronology

Source-Date	Particles/CC >5 µm	
	8 HR-TWA	15 Min. Ceiling
ACGIH - 1964	175	-
OSHA - 1971	12	-
OSHA - June, 1972	5	10
OSHA - July, 1976 (Present Std.)	2	10
OSHA - Proposed Oct. 1975	0.5	5
NIOSH - Recommended Dec. 1976	0.1	0.5

EXHIBIT "C"

ASBESTOS STUDY FOR SABINE

Information Furnished by Cargocaire Eng. Inc.

Composition and Fabrication of Desiccant Wheel

- Start with 5 mil thick asbestos paper
  - 95% asbestos
  - 5% PVA binder
- Corrugate paper
- Dip in sodium silicate adhesive
- Wind into roll
- Dip in sodium silicate adhesive
- Burn off PVA @ 800°F and form silcon dioxide
- Immerse in Tithium Chloride
- Bake to heat set and rinse with air

Properties of Finished Wheel

- Electron Microscope examination (by University of New Hampshire) shows complete encapsulation of asbestos
- Crush strength 10 to 15 psi
- Density = 10 #/ft^3 of which on Average 7# is asbestos, 2# SiO_2 and 1# Tithium Chloride

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EXHIBIT "B"

ASBESTOS STUDY FOR SABINE

U. S. Consumption of Asbestos - >[illegible] Tons/Yr of which about 90% is encapsulated or locked-in to the end products.

Some Uses

- Pipe, roofing, shingles, siding, wallboard, cements, fillers.
- Brake linings, insulation, fireproofing, flooring, theater curtains, welding screens.
- Asphalt paving, papermakers felts, reinforced plastics.
- Filteration materials for soft drinks, beer and pharmaceutical liquids and drugs.
- Low dewpoint dehumidifiers for air used in candy making, packaging dehydrated foods and cereals, etc.
- etc., etc., ———

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EXHIBIT [illegible]

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Miscellaneous Reported Asbestos in Air Concentrations

- Cargocaire sponsored tests of concentration downstream of wheel at rated air flows show a range of 0.00015 to 0.0015 fibers/cc.

- Work environment in Cargocaire wheel fabrication area <0.1 fibers/cc.

- Ambient Levels of Fibers >5 m
  - Reported in California --- 0.0008 fibers/cc
  - Various cities --- 0.00001 to 0.00004 fibers/cc
  - Public Buildings (Baltimore, Washington, D.C.)
    0.001 to 0.008 fibers/cc
    with 0.004 fibers/cc average.

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