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7

8 SUPERIOR COURT OF THE STATE OF CALIFORNIA
9 COUNTY OF SOLANO
10

11 IN RE: SOLANO COUNTY COMPLEX) Case No. 2830
ASBESTOS LITIGATION)
12) UNION CARBIDE CORPORATION'S
13) RESPONSES TO PLAINTIFFS'
FIRST SET OF
INTERROGATORIES
14

15 PROPOUNDING PARTY: Plaintiffs
16

17 RESPONDING PARTY: UNION CARBIDE CORPORATION
18

19 SET NUMBER: ONE (1)
20

21 Defendant Union Carbide Corporation ("Union Carbide")
22 responds as follows to Plaintiffs' First Set of Interrogatories.
23

24 GENERAL OBJECTIONS
25

26 Union Carbide Corporation objects to the entire First
27 Set of Interrogatories based on the following grounds, which are
28 hereby incorporated by reference in Union Carbide's response to
individual interrogatories below.

1. Union Carbide states that trial preparation and
factual investigation are ongoing. Union Carbide's answers to
these interrogatories are based on information known to Union
Carbide at this time. Union Carbide reserves the right,

1 however to make reference at the trial or at any hearing in
2 this action to facts and documents not identified in these
3 responses, the existence or relevance of which is later
4 discovered by it or its counsel. By this reservation, Union
5 Carbide does not in any way assume a continuing responsibility
6 to update its responses to these interrogatories, and
7 specifically objects to each of these interrogatories to the
8 extent that they seek to impose any such continuing obligation
9 upon Union Carbide.

10 2. Union Carbide objects to Plaintiffs' First Set of
11 Interrogatories in its entirety on the grounds that it is not
12 reasonably framed in terms of the facts and subject matter of
13 the present action, with the result that Union Carbide is
14 called upon to speculate as to what information relevant to the
15 present case, if any, may be deemed to fall within the scope of
16 the interrogatories as phrased.

17 3. Union Carbide also objects to all interrogatories
18 insofar as they would require the disclosure of information
19 protected by the attorney-client privilege or work product
20 doctrines.

21 4. Union Carbide objects to any request to provide
22 information about any asbestos-containing product which it has
23 manufactured, sold or distributed, on the grounds that the
24 asbestos fiber in those products was encapsulated by or
25 embedded in other material and on the grounds that the
26 plaintiffs have not alleged exposure to those products. See
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1 Union Carbide's response to interrogatory no. 15 for a list and
2 description of those products. From 1963 until June 30, 1985,
3 Union Carbide mined and sold short fiber chrysotile asbestos
4 initially as "Union Carbide Asbestos" and then under the trade
5 name Calidria (some distributors marketed Calidria under other
6 trade names). Calidria was marketed in both pellet and fibrous
7 form and was used in products or production processes as a
8 filler, reinforcer, opacifier, thixotrope (thickener) and the
9 like. Calidria asbestos was not suited and could not be
10 marketed for use as heat or frost insulation due to its quality
11 and composition, in particular, the short length of its fiber.
12 All responses to these interrogatories refer only to Calidria
13 asbestos.

14 5. Union Carbide objects to this entire set of
15 interrogatories to the extent that it calls for information
16 about Union Carbide employees or premises, or policies
17 pertaining to Union Carbide employees or premises. Inasmuch as
18 the plaintiffs do not allege that they or their decedents were
19 ever employed by Union Carbide or worked at any job site
20 controlled by Union Carbide, such information is irrelevant and
21 immaterial to matters at issue in this case.

22 INTERROGATORY NO. 1:

23 With respect to the individual verifying these answers
24 on your behalf, state the following:

- 25 a) their name;
26 b) their present business address;
- 27
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- 1 c) their present job title;
2 d) their date of first employment with you, and the
3 dates and titles of each job position they have held while they
4 were employed by you.

5 RESPONSE TO INTERROGATORY NO. 1:

- 6 a) John Macdonald
7 b) Present business address is:
8 39 Old Ridgebury Road
9 Danbury, Ct. 06817
10 c) Present job title:
11 Assistant Corporate Secretary of Union Carbide
12 Corporation.
13 d) John Macdonald was first employed by Union Carbide
14 Corporation in December 1969.

15 INTERROGATORY NO. 2:

- 16 State whether YOU are a corporation. If so, state:
17 a. YOUR full corporate name;
18 b. the state of incorporation;
19 c. the date of incorporation;
20 d. the address of YOUR principal place of business;
21 e. if YOU are wholly-owned or if more than five (5)
22 percent of the ownership interest of YOUR COMPANY is
23 owned by another business entity, state that entity's
24 name and principal place of business.

25 RESPONSE TO INTERROGATORY NO. 2:

26 Yes.
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- 1 a) Union Carbide Corporation
2 b) New York State
3 c) November 11, 1917
4 d) Union Carbide Corporation
5 39 Old Ridgebury Road
6 Danbury, Ct. 06817
7 e) Not applicable.

8 INTERROGATORY NO. 3:

9 Has THIS DEFENDANT ever been identified, known, or
10 done business under any other name? If so, please state such
11 name or names and the time period during which THIS DEFENDANT
12 was so known or identified.

13 RESPONSE TO INTERROGATORY NO. 3:

14 See general objection 4. Union Carbide objects to
15 this interrogatory on the grounds that it is overly broad,
16 unduly burdensome and not reasonably calculated to lead to the
17 discovery of admissible evidence. Subject to its objections,
18 Union Carbide responds as follows:

19 See Union Carbide's response to interrogatory no. 3.
20 Union Carbide Corporation was first incorporated in 1917 under
21 the name of "Union Carbide & Carbon Products" and changed its
22 name to Union Carbide Corporation in 1957.

23 INTERROGATORY NO. 4:

24 State whether YOU have ever been registered or
25 qualified to do business in the State of California? If so,
26 state the date YOU became qualified to conduct business in the
27 State of California.
28

1 RESPONSE TO INTERROGATORY NO. 4:

2 See general objection 4. Subject to its objections,
3 Union Carbide responds as follows:

4 Union Carbide obtained a Certificate of Authority to
5 do Business in the State of California on July 31, 1942.

6 INTERROGATORY NO. 5:

7 Does THIS DEFENDANT currently have, or has THIS
8 DEFENDANT had a department, division, subdivision, branch or
9 group responsible for the design, development, manufacture,
10 testing and use of ASBESTOS-CONTAINING PRODUCT(S)? If so,
11 state:

12 a) the name of each present or former corporate
13 department, division, subdivision, branch or group;

14 b) the IDENTITY of the person most knowledgeable
15 about such department, division, subdivision, branch or group.

16 RESPONSE TO INTERROGATORY NO. 5:

17 See general objection 4. Union Carbide objects to
18 this interrogatory on the grounds that it is overly broad,
19 unduly burdensome and not reasonably calculated to lead to the
20 discovery of admissible evidence. Subject to its objections,
21 Union Carbide responds as follows:

22 Not applicable: Calidria consisted of raw, short
23 fibre chrysotile asbestos mined by Union Carbide at or near
24 King City, California and sold to manufacturers and producers
25 for use in their products and production processes.

1 INTERROGATORY NO. 6:

2 Has THIS DEFENDANT engaged in the MARKETING of
3 ASBESTOS-CONTAINING PRODUCT(S) comprised in whole or in part of
4 amosite asbestos fiber; if so, please state:

5 a) the trade, brand name and/or generic name of each
6 type of product;

7 b) the date(s) THIS DEFENDANT first MARKETED each
8 type of product;

9 c) the date(s) THIS DEFENDANT ceased MARKETING each
10 type of product;

11 d) a general description of the chemical composition
12 of each type of product, including:

13 (i) the type(s) and/or grade(s) of RAW ASBESTOS
14 FIBER contained in each type of product;

15 (ii) the quantitative percentage of the type(s)
16 of RAW ASBESTOS FIBER in each type of product;

17 (iii) any change(s) in the quantitative
18 percentages of the type(s) of RAW ASBESTOS FIBER in each type
19 of product;

20 e) the NATURE of each type of product;

21 f) a description of any wording, markings and/or
22 logo on each type of product;

23 g) the recommended use(s) of each type of product,
24 including temperature limits;

25 h) the name(s) of the manufacturer(s) of each type
26 of product;

1 i) the name(s) and address(es) of the supplier(s) of
2 the amosite asbestos fiber used in each type of product;

3 j) the IDENTITY of the person(s) most knowledgeable
4 concerning the purchase of amosite asbestos fiber by THIS
5 DEFENDANT.

6 RESPONSE TO INTERROGATORY NO. 6:

7 See general objection 4. Union Carbide also objects
8 to this interrogatory on the grounds that it is overly broad,
9 unduly burdensome, vague and ambiguous and not reasonably
10 calculated to lead to the discovery of admissible evidence.

11 INTERROGATORY NO. 7:

12 Has THIS DEFENDANT engaged in the MARKETing of amosite
13 asbestos fiber; if so, please state:

14 a) the name and location of each amosite asbestos
15 mine which THIS DEFENDANT presently operates, has operated, or
16 in which THIS DEFENDANT has or had an ownership interest,
17 including the dates of such ownership, and the grade of amosite
18 asbestos fiber mined;

19 b) the date(s) THIS DEFENDANT first MARKETed amosite
20 asbestos fiber;

21 c) the date(s) THIS DEFENDANT ceased MARKETing
22 amosite asbestos fiber;

23 d) the grade(s) of such amosite asbestos fiber
24 MARKETed by THIS DEFENDANT;

25 e) the recommended use(s) of each grade of such
26 amosite asbestos fiber, including any temperature limits;
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1 f) the name(s) and address(es) of the supplier(s) of
2 amosite asbestos fiber to THIS DEFENDANT.

3 RESPONSE TO INTERROGATORY NO. 7:

4 No, Union Carbide never mined or sold amosite asbestos
5 fibre.

6 INTERROGATORY NO. 8:

7 Has THIS DEFENDANT engaged in the MARKETing of
8 ASBESTOS-CONTAINING PRODUCTS comprised in whole or in part of
9 chrysotile asbestos fiber; if so, please state:

10 a) the trade, brand name and/or generic name of each
11 type of product;

12 b) the date(s) this Defendant first MARKETed each
13 type of product;

14 c) the date(s) THIS DEFENDANT ceased MARKETing each
15 type of product;

16 d) a general description of the chemical composition
17 of each tyepe of product, including:

18 (i) the type(s) and grade(s) of asbestos fiber
19 contained in each type of product;

20 (ii) the quantitative percentage of the type(s)
21 of RAW ASBESTOS FIBER in each type of product;

22 (iii) any change(s) in the quantitative
23 percentages of the type(s) of RAW ASBESTOS FIBER in each type
24 of product;

25 e) the NATURE of each type of product;

1 f) a description of any wording, markings and/or
2 logo on each type of product;

3 g) the recommended use(s) of each type of product,
4 including temperature limits;

5 h) the name(s) of the manufacturer(s) of each type
6 of product;

7 i) the name(s) and address(es) of the supplier(s) of
8 the chrysotile asbestos fiber used in each type of product;

9 j) the IDENTITY of the person(s) most knowledgeable
10 concerning the purchase of chrysotile asbestos fiber by THIS
11 DEFENDANT.

12 RESPONSE TO INTERROGATORY NO. 8:

13 See general objection 4. Union Carbide also objects
14 to this interrogatory on the grounds that it is overly broad,
15 unduly burdensome, vague and ambiguous and not reasonably
16 calculated to lead to the discovery of admissible evidence.

17 INTERROGATORY NO. 9:

18 Has THIS DEFENDANT engaged in the MARKETING of
19 chrysotile asbestos fiber; if so, please state:

20 a) the name and location of each chrysotile asbestos
21 mine which THIS DEFENDANT presently operates, has operated, or
22 in which THIS DEFENDANT has or had an ownership interest,
23 including the dates of such ownership, and the grade of
24 chrysotile asbestos fiber mined;

25 b) the date(s) THIS DEFENDANT first MARKETED
26 chrysotile asbestos fiber;

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1 c) the date(s) THIS DEFENDANT ceased MARKETing
2 chrysotile asbestos fiber;

3 d) the grade(s) of such chrysotile asbestos fiber
4 MARKETed by THIS DEFENDANT;

5 e) the recommended use(s) of each grade of such
6 chrysotile asbestos fiber, including any temperature limits;

7 f) the name(s) and address(es) of the supplier(s) of
8 chrysotile asbestos fiber to THIS DEFENDANT.

9 RESPONSE TO INTERROGATORY NO. 9:

10 See general objection 4. Union Carbide also objects
11 to this interrogatory on the grounds that it is overly broad,
12 unduly burdensome, vague and ambiguous. Subject to its
13 objections, Union Carbide responds as follows:

14 a) Union Carbide mined and milled unique short fiber
15 chrysotile asbestos from a deposit at or near King City,
16 California.

17 b) 1963.

18 c) June, 1985

19 d) Union Carbide produced four grades of Calidria
20 asbestos: standard, super standard, high purity, and resin
21 grade; the different grades reflect varying degrees of purity
22 of content. Each grade was sold in both pelletized and fibrous
23 form. The following is a representative listing and
24 description of the various brands of Calidria mined and
25 marketed by Union Carbide:

	<u>PRODUCT</u> <u>SYMBOL</u>	<u>PRODUCT</u> <u>CODE</u>	<u>DESCRIPTION</u>
1			
2			
3	HPO	651001	High Purity, Open Fiber
	HPO-C	651101	High Purity, Open Fiber
	HPP	651601	High Purity, Pellets
4	HPP-JAP	651701	High Purity, Pellets, 4-Ply bags
	R-G 110	652101	Resin-Grade, Open Fiber 15% +325
5	R-G 110-D	652201	Resin-Grade, Open Fiber, 15% +325
	R-G 144	652501	Resin-Grade, Open Fiber
6	A-14	652801	Resin-Grade, Open Fiber
	R-G 244	653001	Resin-Grade, Open Fiber
7	R-G 444-0	653301	Resin-Grade, Open Fiber, 10% Stearic
	A-28	653601	Resin-Grade, Open Fiber, Silica Treated
8	SG-100	654001	Standard Grade, Pellets
	SG-102	654201	Standard Grade, Pellets, 100-lb. bags
9	SG-130	654501	Standard Grade, Open Fiber, 30% +325
	SG-144	654801	Standard Grade, Open Fiber, 45% +325
10	SG-200	655001	Super Standard Grade, Pellets
	SG-210	655301	Super Standard Grade, Open Fiber, 15% +325
11	SG-444-0	655501	Standard Grade, Open Fiber, 5% Stearic, Hydrophobic
12	T-135-0	656001	High Purity, Open Fiber, Titanated, 35%, Anatase
13	T-135-P	656301	High Purity, Pellets, Titanated, 35%, Anatase
14	CG-100	656601	Coatings Grade, Pellets
	CG-135-0	656801	Coatings Grade, Open Fiber, Titanated 35%, Rutile
15	CG-135-P	656901	Coatings Grade, Pellets, Titanated, 35%, Rutile
16	Super-		
17	Visbestos	657301	Super Standard Grade, Cracked Pellets
	Visbestos	657601	Standard Grade, Open Fiber
18	Oilbestos	657001	Standard Grade, Open Fiber, 5% Stearic, Hydrophobic

e) Calidria, due to its unique physical properties, short fiber length in particular, was not suited for use in thermal or frost insulation.

Calidria consisted of raw asbestos which was marketed and sold by Calidria distributors to manufacturers or producers who incorporated and used Calidria in their products or production processes. Calidria was not sold by Union Carbide

1 or, according to the best information available to Union
2 Carbide, by Calidria distributors to consumers or other
3 "end-users". The following is a representative list of
4 different brands of Calidria asbestos and the applications for
5 which they were marketed:

6 <u>Calidria</u>	
7 <u>Product</u>	8 <u>Applications</u>
9 SG-100	10 Vinyl-Asbestos Floor Tile
11 SG-130	12 Masonry Coatings
13 SG-200	14 Rubber Floor Tile
15 Super Visbestos	16 Drilling Muds
17 SG-210	18 Mastics 19 Asphaltic Coatings
20 HPP	21 Rubber Sheet Goods 22 Mineral Board (Japan) 23 Paper (Japan)
24 HPO	25 Asphaltic Coatings, Adhesives
26 RG-110	27 Asphaltic Spray Coatings 28 Aluminized Coatings Mastics, Caulks and Sealants
18 RG-144	Adhesives (Epoxy, Casim, Phenolics) Coatings Vinyl Plastisols (High Build, Dip Coatings) Mastics, Caulks and Sealants (Vinyl, Butyl, Polysulfide, Bituminous)
22 RG-244	Polyester Resins (Laminating, Gel Coats, Putties) Caulks and Sealants (Vinyl, Butyl, Acrylic, Polyurethane) Coatings (Epoxy, Urethane, Asphaltic)

25 In addition to the different markets in which the Calidria
26 products listed above were respectively sold, other brands of
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1 Calidria may have been sold within the same markets. Such
2 brands of Calidria were distinguished on the basis of grade
3 (purity of content), form (fibrous or pelletized) or chemical
4 treatment, or a combination of the above.

5 INTERROGATORY NO. 10:

6 Has THIS DEFENDANT engaged in the MARKETing of
7 ASBESTOS-CONTAINING PRODUCT(S) comprised in whole or in part of
8 crocidolite asbestos fiber; if so, please state:

9 a) the trade, brand name and/or generic name of each
10 type of product;

11 b) the date(s) THIS DEFENDANT first MARKETed each
12 type of product;

13 c) the date(s) THIS DEFENDANT ceased MARKETing each
14 type of product;

15 d) a general description of the chemical composition
16 of each type of product, including:

17 (i) the type(s) and/or grade(s) of RAW ASBESTOS
18 FIBER contained in each type of product;

19 (ii) the quantitative percentage of the type(s)
20 of RAW ASBESTOS FIBER in each type of product;

21 (iii) any change(s) in the quantitative
22 percentages of the type(s) of RAW ASBESTOS FIBER in each type
23 of product;

24 e) the NATURE of each type of product;

25 f) a description of any wording, markings and/or logo
26 on each type of product;

1 g) the recommended use(s) of each type of product,
2 including temperature limits;

3 h) the name(s) of the manufacturer(s) of each type of
4 product;

5 i) the name(s) and address(es) of the supplier(s) of
6 the crocidolite asbestos fiber used in each type of product;

7 j) the IDENTITY of the person(s) most knowledgeable
8 concerning the purchase of crocidolite asbestos fiber by THIS
9 DEFENDANT.

10 RESPONSE TO INTERROGATORY NO. 10:

11 See general objection 4. Union Carbide objects to
12 this interrogatory on the grounds that it is overly broad,
13 unduly burdensome, vague and ambiguous.

14 INTERROGATORY NO. 11:

15 Has THIS DEFENDANT engaged in the MARKETING of
16 crocidolite asbestos fiber; if so, please state:

17 a) the name and location of each crocidolite asbestos
18 mine which THIS DEFENDANT presently operates, has operated, or
19 in which THIS DEFENDANT has or had an ownership interest,
20 including the dates of such ownership, and the grade of
21 crocidolite asbestos fiber mined;

22 b) the date(s) THIS DEFENDANT first MARKETed
23 crocidolite asbestos fiber;

24 c) the date(s) THIS DEFENDANT ceased MARKETING
25 crocidolite asbestos fiber;

1 d) the grade(s) of such crocidolite asbestos fiber
2 MARKETed by THIS DEFENDANT;

3 e) the recommended use(s) of each grade of such
4 crocidolite asbestos fiber, including any temperature limits;

5 f) the name(s) and address(es) of the supplier(s) of
6 crocidolite asbestos fiber to THIS DEFENDANT.

7 RESPONSE TO INTERROGATORY NO. 11:

8 No, Union Carbide never mined or sold crocidolite
9 asbestos.

10 INTERROGATORY NO. 12:

11 Does or did THIS DEFENDANT have a controlling
12 ownership interest in any COMPANY which MARKETed
13 ASBESTOS-CONTAINING PRODUCTS; if so, please state:

14 a) the name of such COMPANY;

15 b) the date of incorporation of such COMPANY;

16 c) the state of incorporation of such COMPANY;

17 d) the date such interest was acquired;

18 e) the date such interest was changed or terminated,
19 if applicable;

20 f) the name and location of each facility of such
21 COMPANY;

22 g) the name of each type of ASBESTOS-CONTAINING
23 PRODUCT(S) manufactured, processed, and/or assembled by such
24 COMPANY.

25 RESPONSE TO INTERROGATORY NO. 12:

26 See general objection 4. Union Carbide also objects
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1 to this interrogatory on the grounds that it is overly broad,
2 unduly burdensome, and not reasonably calculated to lead to the
3 discovery of admissible evidence. Subject to its objections,
4 Union Carbide responds as follows:

5 In 1976 Union Carbide acquired another company which
6 prior to its acquisition by Union Carbide had manufactured a
7 line of mastic sealants, coatings and adhesives, some of which
8 contained small quantities of asbestos. The asbestos fiber in
9 those products was encapsulated by binder ingredients in the
10 production process. The company sold the division which
11 produced these products and ceased producing all asbestos
12 containing products (except for TRE-HOLD, a tree sprout
13 inhibitor prior to Union Carbide's acquisition of the company).

14 INTERROGATORY NO. 13:

15 Does or did THIS DEFENDANT have a controlling
16 ownership interest in any COMPANY that MARKETED RAW ASBESTOS
17 FIBER: if so, please state:

- 18 a) the name of such COMPANY;
19 b) the date of incorporation or charter of such
20 COMPANY;
21 c) the state or country of incorporation of such
22 COMPANY;
23 d) the date such interest was acquired;
24 e) the dates such interest changed or terminated, if
25 applicable;

1 f) the name and location of each asbestos mine owned
2 by such COMPANY;

3 g) the grade and type of RAW ASBESTOS FIBER mined at
4 each mine.

5 RESPONSE TO INTERROGATORY NO. 13:

6 See general objection 4. Union Carbide also objects
7 to this interrogatory on the grounds that it is overly broad,
8 unduly burdensome, vague and ambiguous. Subject to its
9 objections, Union Carbide responds as follows:

10 See Union Carbide's response to interrogatory no. 9.

11 INTERROGATORY NO. 14:

12 Has THIS DEFENDANT warehoused any RAW ASBESTOS FIBER
13 or ASBESTOS-CONTAINING PRODUCT(S) in the State of California;
14 if so, please state:

- 15 a) the address of each warehouse facility;
16 b) the year(s) THIS DEFENDANT utilized each facility;
17 c) the IDENTITY of the custodian of warehousing
18 records.

19 RESPONSE TO INTERROGATORY NO. 14:

20 See general objection 4. Union Carbide also objects
21 to this interrogatory on the grounds that it is overly broad,
22 unduly burdensome, vague and ambiguous. Subject to its
23 objections, Union Carbide responds as follows:

24 Union Carbide warehoused it's Calidria asbestos at its
25 Torrance, California facility. The following is a list of
26
27
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1 former Calidria distributors in California which warehoused
2 Calidria:

3 Van. Waters & Rogers 1970-1971
4 1363 S. Bonnie Beach Place
5 Los Angeles, California 90054

6 Harrisons & Crosfield
7 M&N Warehouse 1977-1984
8 6245 Christie
9 Emerville, California 94608

10 INTERROGATORY NO. 15:

11 Has THIS DEFENDANT owned or operated facilities
12 anywhere in the United States in which ASBESTOS-CONTAINING
13 PRODUCT(S) have been manufactured, processed and/or assembled;
14 if so, state:

15 a) the address of each such facility, including city
16 and state.

17 RESPONSE TO INTERROGATORY NO. 15:

18 See general objection 4. Union Carbide objects to
19 this interrogatory on the grounds that it is overly broad,
20 unduly burdensome, vague and ambiguous and not reasonably
21 calculated to lead to the discovery of admissible evidence.
22 Subject to its objections, Union Carbide responds as follows:

23 Prior to late 1979, Union Carbide or one of its
24 subsidiaries produced a tree sprout inhibitor called TRE-HOLD,
25 which was used primarily to inhibit growth on telephone poles.
26 TRE-HOLD contained a small quantity of asbestos bound in an
27 asphalt carrier; the asbestos in TRE-HOLD was fully
28 encapsulated.

1 Prior to 1976, Union Carbide manufactured a product
2 called Bakelite, which is a phenolic molding compound.
3 Bakelite was marketed by Union Carbide through distributors for
4 use in electronic parts and products such as switches, switch
5 boxes, radios, and plug in receptacles. The asbestos fiber in
6 the Bakelite material was fully encapsulated.

7 Prior to August 1977, Union Carbide manufactured UDEL
8 Polysulfone P6050, which was an asbestos-containing, high
9 temperature, high rigidity thermoplastic molding material, used
10 primarily in camera cases. The asbestos in UDEL Polysulfone
11 P6050 was fully encapsulated.

12 Union Carbide formerly manufactured automotive
13 radiator products under the names Prestone Antifreeze, Prestone
14 Sealer Stop Leak and Prestone Heavy Duty Sealer. Asbestos
15 ceased to be used as an additive in the antifreeze in 1971 and
16 in the sealers in 1972. The fiber in these products was
17 embedded within a liquid substance.

18 Until 1985, Union Carbide sold or leased acetylene
19 cylinders which contained asbestos liners. The asbestos in the
20 acetylene cylinder liners was encapsulated within liner
21 materials and the liner materials were contained within a metal
22 cylinder.

23 Union Carbide also manufactured a steel "scarfer"
24 machine (used to remove blemishes and imperfections from
25 steel), with parts which contained some asbestos. In the late
26 1950's or early 1960's, Union Carbide may also have
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1 experimented with certain asbestos-containing polyethylene and
2 polystyrene products which would have only been sold in limited
3 quantities on an experimental basis.

4 Union Carbide no longer manufactures or sells any of
5 the above products. Union Carbide has never manufactured or
6 distributed an asbestos-containing cement, pipe covering, cloth
7 or the like.

8 From 1963 through June 30, 1985 Union Carbide mined
9 and sold a unique short-fiber chrysotile asbestos initially as
10 "Union Carbide Asbestos" and then under the trade name Calidria
11 (some distributors marketed Calidria under other trade names).
12 Calidria was sold, both directly by Union Carbide and through
13 distributors as raw asbestos, in pelletized and fibrous form in
14 varying grades of purity of content. Calidria was not sold to
15 the general public or to "end users". It was sold to
16 manufacturers for use in their products or production processes
17 as a filler, reinforcer, opacifier, thixotrope (thickener) and
18 the like. Calidria asbestos was not suitable for use as
19 standard heat or frost insulation or, for instance, piping, due
20 to its quality and composition, in particular, due to the short
21 length of its fiber.

22 INTERROGATORY NO. 16:

23 If THIS DEFENDANT owned or operated facilities in
24 which ASBESTOS-CONTAINING PRODUCT(S) have been manufactured,
25 processed and/or assembled, please state:

26 a) the date such facilities began operation;
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- 1 b) the date said facility ceased operation; and
2 c) the name of each type of ASBESTOS-CONTAINING
3 PRODUCT manufactured, processed or assembled at
4 each such facility.

5 RESPONSE TO INTERROGATORY NO. 16:

6 See general objections 4 and 5. Union Carbide also
7 objects to this interrogatory on the grounds that it is overly
8 broad, unduly burdensome, vague and ambiguous and not
9 reasonably calculated to lead to the discovery of admissible
10 evidence. Subject to its objections, Union Carbide responds as
11 follows:

12 See Union Carbide's response to interrogatory no. 15.

13 INTERROGATORY NO. 17:

14 Has THIS DEFENDANT purchased or otherwise acquired any
15 rights to the manufacture of ASBESTOS-CONTAINING PRODUCT(S)
16 from another COMPANY? If so, state:

- 17 a) the date of purchase or acquisition of such
18 rights;
19 b) the trade, brand, and/or generic name of such
20 ASBESTOS-CONTAINING PRODUCT(S);
21 c) the name and location of any COMPANY from which
22 such rights were purchased or acquired;
23 d) the IDENTITY of the custodian of records of such
24 purchase(s) or acquisition(s).

25 RESPONSE TO INTERROGATORY NO. 17:

26 See general objection 4. Union Carbide objects to
27
28

1 this interrogatory on the grounds that it is overly broad,
2 unduly burdensome, vague and ambiguous and not reasonably
3 calculated to lead to the discovery of admissible evidence.
4 Subject to its objections, Union Carbide responds as follows:

5 See Union Carbide's response to interrogatory no. 12.

6 INTERROGATORY NO. 18:

7 Has THIS DEFENDANT applied for and/or received any
8 patent(s) for any ASBESTOS-CONTAINING PRODUCT(S)? If so, state
9 for each such ASBESTOS-CONTAINING PRODUCT:

- 10 a) the product for which each patent was applied
11 and/or issued;
12 b) the date(s) of application;
13 c) the date(s) of issuance of the patent(s), if
14 granted;
15 d) the date(s) of renewal, if any;
16 e) the patent number(s);
17 f) the name of the individual or COMPANY to whom
18 each patent was issued;
19 g) the IDENTITY of the custodian of patent records
20 of THIS DEFENDANT.

21 RESPONSE TO INTERROGATORY NO. 18:

22 See general objection 4. Union Carbide objects to
23 this interrogatory on the grounds that it is overly broad and
24 not reasonably limited by either time or subject matter to
25 information which is relevant to the subject matter of the
26 action or reasonably calculated to lead to the discovery of
27
28

1 admissible evidence. Union Carbide further objects to this
2 interrogatory on the ground that it seeks information which is
3 in the public domain and which is readily accessible to
4 plaintiff. Subject to its objections, Union Carbide responds
5 as follows:

6 The following two patents are patents which have been
7 obtained with respect to the use of Calidria asbestos: U.S.
8 Patent No. 3,947,286 issued March 30, 1976 and U.S. Patent No.
9 3,838,085 issued September 24, 1974.

10 INTERROGATORY NO. 19:

11 Has THIS DEFENDANT registered any trademark(s) for any
12 ASBESTOS-CONTAINING PRODUCT(S); if so, state for each such
13 ASBESTOS-CONTAINING PRODUCT:

- 14 a) the product for which each trademark was
15 registered;
16 b) whether the registration was State or Federal;
17 (i) if State, name the State;
18 c) the date(s) of registration;
19 d) the term(s) thereof;
20 e) the date(s) of renewal;
21 f) the name of the individual or COMPANY to whom
22 each trademark was registered;
23 g) the IDENTITY of the custodian of such trademark
24 records of THIS DEFENDANT.

25 RESPONSE TO INTERROGATORY NO. 19:

26 See general objection 4. Union Carbide objects to
27
28

1 this interrogatory on the grounds that it is overly broad,
2 unduly burdensome, vague and ambiguous and not reasonably
3 calculated to lead to the discovery of admissible evidence.
4 Subject to its objections, Union Carbide responds as follows:

5 Union Carbide sold its asbestos virtually as Union
6 Carbide Asbestos and then under the name "Calidria". Union
7 Carbide, however, packaged Calidria asbestos for the Montello
8 Corporation for sale under the tradenames of Visbestos, Super
9 Visbestos, Telvis, Imcobest and Univis. Union Carbide also
10 packaged Calidria for the ARCO company for sale under the name
11 Arcovis, and for the International Mines and Chemical Company
12 for sale under the name Surelift. Calidria was also sold
13 domestically in limited quantities under the names Visquick and
14 Oilbestos by distributors which Union Carbide is presently
15 unable to identify. Union Carbide objects to responding to
16 this interrogatory with respect to overseas sales on the
17 grounds that such information is irrelevant and immaterial to
18 matters at issue in this case.

19 INTERROGATORY NO. 20:

20 Did THIS DEFENDANT contract with the General Services
21 Administration and/or other federal-government agency for the
22 sale, anywhere in the United States, of RAW ASBESTOS FIBER
23 between 1930 and 1980; if so, state for each such sale:

- 24 a) the grade(s) and type(s) of RAW ASBESTOS FIBER;
25 b) the quantity;
26 c) the date(s) of delivery;
27
28

- 1 d) the location(s), including the address(es) of
2 delivery;
3 e) the name(s) of the agency with which THIS
4 DEFENDANT contracted;
5 f) the date(s) of execution of such contract(s);
6 g) the IDENTITY of the custodian of such contract
7 records of THIS DEFENDANT.

8 RESPONSE TO INTERROGATORY NO. 20:

9 See general objection 4. Union Carbide objects to
10 this interrogatory on the grounds that it is overly broad,
11 unduly burdensome, vague and ambiguous and not reasonably
12 calculated to lead to the discovery of admissible evidence.
13 Subject to its objections, Union Carbide responds as follows:

14 Union Carbide possesses copies of invoices of Calidria
15 sales made by Union Carbide to Calidria customers. Union
16 Carbide also maintains a computer data base of such sales.
17 Since Union Carbide sold its Calidria business in 1985, Union
18 Carbide, at present, can make no representation as to the
19 completeness of its records. The aforementioned constitute the
20 most complete records of Calidria sales currently available to
21 Union Carbide. Union Carbide lacks, however, a record of sales
22 made by Calidria distributors, who accounted for approximately
23 25% of all Calidria sales.

24 The aforesaid sales records contain no reference of
25 any sale of Calidria to the General Services Administration.
26 Upon plaintiff's request, Union Carbide will make its sales
27
28

1 records available to the plaintiff for review and duplication
2 at a suitable time and place.

3 INTERROGATORY NO. 21:

4 Did THIS DEFENDANT contract with the General Services
5 Administration and/or other federal-government agency for the
6 sale, anywhere in the United States, of ASBESTOS-CONTAINING
7 PRODUCT(S) between 1930 and 1980; if so, state for each such
8 sale:

- 9 a) the grade(s) and type(s) of RAW ASBESTOS FIBER;
10 b) the quantity;
11 c) the date(s) of delivery;
12 d) the location(s), including the address(es) of
13 delivery;
14 e) the name(s) of the agency with which THIS
15 DEFENDANT contracted;
16 f) the date(s) of execution of such contract(s);
17 g) the IDENTITY of the custodian of such contract
18 records of THIS DEFENDANT.

19 RESPONSE TO INTERROGATORY NO. 21:

20 See Union Carbide's response to interrogatory no. 20.

21 INTERROGATORY NO. 22:

22 Does this DEFENDANT have any records of the MARKETing,
23 advertisement, or delivery of its RAW ASBESTOS FIBER and/or
24 ASBESTOS-CONTAINING PRODUCT(S) in or to NORTHERN CALIFORNIA?
25 If so, state:
26
27
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- 1 a) the manner in which the records are kept, (e.g.,
2 in boxes, files, on microfilm, microfiche or
3 computer tape or disk);
4 b) the location(s) and address(es) where such
5 records are maintained;
6 c) the IDENTITY of the custodian of such records.

7 RESPONSE TO INTERROGATORY NO. 22:

8 See general objection 4. Union Carbide objects to
9 this interrogatory on the grounds that it is overly broad,
10 unduly burdensome, vague and ambiguous and not reasonably
11 calculated to lead to the discovery of admissible evidence.
12 Subject to its objections, Union Carbide responds as follows:

13 a) See Union Carbide's response to interrogatory no.
14 20. Union Carbide no longer mines or sells Calidria and no
15 longer maintains records of advertisements for Calidria which
16 it may have placed prior to 1966. The following is the most
17 complete list and record of Calidria advertisements that Union
18 Carbide is presently able to assemble:

19	<u>Journal</u>	<u>Page(s)</u>	<u>Date(s)</u>	<u>Photographs or Diagrams</u>
20	"Chemical 26"	Unknown	7/66	Yes
21	"Chemical 26"	17	9/66	Yes
	(Technical Association of the Pulp and Paper Industry)			
22	"TAPPI"	44A-45A	2/66	Yes
	"TAPPI"	141A	3/66	Yes
23	"TAPPI"	39A	10/66	No
	"TAPPI"	41A	10/66	Yes
24	"TAPPI"	139A	11/66	No
	"TAPPI"	141A	11/66	Yes
25	"TAPPI"	155A	12/66	No
	"TAPPI"	157A	12/66	Yes
26	"TAPPI"	149A	1/66	No
	"TAPPI"	151A	1/67	Yes

1	"TAPPI"	153A	1/67	Yes
2	"TAPPI"	131A	2/67	Yes
3	"TAPPI"	133A	2/67	Yes
4	"Pulp & Paper"	Unknown	5/2/66	Yes
5	"Pulp & Paper"	Unknown	5/2/66	Yes
6	"Pulp & Paper"	15	6/20/66	Yes
7	"Pulp & Paper"	9	11/21/66	Yes
8	"Pulp & Paper"	11	11/21/66	Yes
9	"Pulp & Paper"	55	12/5/66	No
10	"Pulp & Paper"	57	12/5/66	Yes
11	"Pulp & Paper"	45	12/19/66	Yes
12	"Pulp & Paper"	79	1/30/67	No
13	"Pulp & Paper"	81	1/30/67	Yes
14	"Pulp & Paper"	83	1/30/67	Yes
15	"Pulp & Paper"	65	2/20/67	Yes
16	"Paper Trade Journal"	4-5	3/7/66	Yes
17	"Paper Trade Journal"	37	1/9/67	Yes
18	"Paper Trade Journal"	35	2/6/67	No
19	"Paper Trade Journal"	37	2/6/67	Yes
20	"Paper Trade Journal"	83	2/20/67	No
21	"Paper Trade Journal"	85	2/20/67	Yes
22	"Oil & Gas & Petro- Chemical Equipment"	Unknown	10/66	Yes/1/
23	"Petroleum Equipment & Services"	Unknown	10/66	Yes/1/
24	"Drilling DCW"	Unknown	11/66	Yes/1/
25	"Petroleum Engineer"	Unknown	10/66	Yes/1/
26	"Rubber Red Block"	Unknown	1974 & 1975	Yes/2/

1/ This ad placed by Montello, Inc., a Union Carbide Distributor.

2/ This ad placed by Harwick Chemical, a Union Carbide Distributor.

b, c) Union Carbide's custodian of records is Mrs. Vina Shatah, Kelley Drye & Warren, Six Stamford Forum, Stamford, Connecticut 06901.

INTERROGATORY NO. 23:

If THIS DEFENDANT has in its possession any records of the MARKETING, advertisement, or delivery of its RAW ASBESTOS FIBER and/or ASBESTOS-CONTAINING PRODUCTS (including microfilm, microfiche, compute tape or disk, or any other system in which

1 data is taken from other records), state whether THIS DEFENDANT
2 has retained the original DOCUMENTS from which the data entered
3 into these modes of storage was obtained. If THIS DEFENDANT
4 has not retained such original DOCUMENTS, state:

- 5 a) the date(s) when and location(s) where the
6 original DOCUMENTS were disposed of;
7 b) the IDENTITY of the custodian of the original
8 DOCUMENTS at the time of their disposal.

9 RESPONSE TO INTERROGATORY NO. 23:

10 See general objection 4. Union Carbide objects to
11 this interrogatory on the grounds that it is overly broad,
12 unduly burdensome, and harrassing and not reasonably calculated
13 to lead to the discovery of admissible evidence. Subject to
14 its objections, Union Carbide responds as follows:

15 See Union Carbide's responses to interrogatories 20
16 and 22.

17 INTERROGATORY NO. 24:

18 Does THIS DEFENDANT have in its possession any
19 exemplar(s) of advertisements or brochures describing its RAW
20 ASBESTOS FIBER and/or ASBESTOS-CONTAINING PRODUCTS; if so,
21 please state:

- 22 a) the location of each exemplar;
23 b) the year(s) in which said exemplar(s) was utilized;
24 c) the IDENTITY of the custodian of such exemplars.

25 RESPONSE TO INTERROGATORY NO. 24:

26 See general objection 4 and Union Carbide's responses
27 to interrogatories 20, 22 and 39.
28

1 INTERROGATORY NO. 25:

2 State the following:

- 3 a) the address(es) where the corporate records of
4 THIS DEFENDANT (including minutes from the Board
5 of Directors meetings and corporation annual
6 reports), are currently located;
7 b) the IDENTITY of the custodian of such records.

8 RESPONSE TO INTERROGATORY NO. 25:

9 See general objection 4. Union Carbide's corporate
10 records are kept at:

11 Union Carbide Corporation
12 39 Old Ridgebury Road
13 Danbury, Ct. 06817

14 Union Carbide's asbestos-related business documents
15 are kept and maintained by Union Carbide's custodian of
16 records, Mrs. Vina Shatah, Kelley Drye & Warren, Six Stamford
17 Forum, Stamford, Connecticut 06901.

18 INTERROGATORY NO. 26:

19 Describe the packaging or containers in which THIS
20 DEFENDANT sold and/or distributed RAW ASBESTOS FIBER, including
21 composition, dimension, shape and color.

22 RESPONSE TO INTERROGATORY NO. 26:

23 See general objection 4. Union Carbide objects to
24 this interrogatory on the grounds that it is overly broad,
25 unduly burdensome, vague and ambiguous and not reasonably
26 calculated to lead to the discovery of admissible evidence.
27 Subject to its objections, Union Carbide responds as follows:
28

1 Calidria asbestos was mostly transported in plastic or
2 Kraft type paper bags, although some Calidria had been shipped
3 in bulk in railroad hopper cars. Each bag contained the
4 following information: Union Carbide's corporate name and
5 address, the net weight of material supplied, the applicable
6 grade of asbestos, the lot number identification, and, starting
7 in 1968 a cautionary statement. At the request of some
8 customers, a limited amount of Calidria asbestos was sold in
9 plain Kraft bags, which contained only the cautionary
10 statement. Unless the customer requested otherwise, between
11 approximately the mid-1970's and June 1985 all Kraft bags
12 containing Calidria asbestos were individually shrink wrapped
13 (encased by a tight fitting plastic film); an entire pallet
14 containing a number of such bags was also completely covered
15 with the tight fitting plastic film.

16 Union Carbide had used two cautionary statements on
17 its Calidria packaging: The first cautionary statement was
18 used from June 22, 1968 through May 1972, and read as follows:
19 "Warning: Breathing dust may be harmful. Do not breathe
20 dust." The second cautionary statement was prescribed by OSHA
21 in 1972 and was first printed on Calidria packaging in June of
22 that year and was used by Union Carbide until the sale of the
23 Calidria mine and mill in 1985; this second cautionary
24 statement read as follows: "Caution. Contains asbestos
25 fibers. Avoid creating dust. Breathing asbestos dust may
26 cause serious bodily harm."
27
28

1 INTERROGATORY NO. 27:

2 Describe any logo, design, marking or printing,
3 including size and color, which appeared on the packaging or
4 containers in which THIS DEFENDANT sold and/or distributed RAW
5 ASBESTOS FIBER.

6 RESPONSE TO INTERROGATORY NO. 27:

7 See general objection 4. Union Carbide objects to
8 this interrogatory on the grounds that it is overly broad,
9 unduly burdensome, vague and ambiguous, and not reasonably
10 calculated to lead to the discovery of admissible evidence.

11 Subject to its objections, Union Carbide responds as
12 follows:

13 See Union Carbide's response to interrogatory no. 26.

14 INTERROGATORY NO. 28:

15 Describe the packaging or containers in which THIS
16 DEFENDANT sold and/or distributed ASBESTOS-CONTAINING
17 PRODUCT(S), including composition, dimension, shape and color.

18 RESPONSE TO INTERROGATORY NO. 28:

19 See general objection 4. Union Carbide also objects
20 to this interrogatory on the grounds that it is overly broad,
21 unduly burdensome and not reasonably calculated to lead to the
22 discovery of admissible evidence.

23 INTERROGATORY NO. 29:

24 Describe any logo, design, marking or printing,
25 including size and color, which appeared on the packaging or
26 containers in which THIS DEFENDANT sold and/or distributed
27 ASBESTOS-CONTAINING PRODUCT(S).

1 RESPONSE TO INTERROGATORY NO. 29:

2 See Union Carbide's response to interrogatory no. 26.

3 INTERROGATORY NO. 30:

4 Does THIS DEFENDANT have any exemplar(s) of packaging
5 or containers in which its RAW ASBESTOS FIBER and/or ASBESTOS-
6 CONTAINING PRODUCT(S) were sold and/or distributed? If so,
7 state:

- 8 a) the location of each exemplar;
9 b) the year(s) in which said exemplar(s) was utilized;
10 c) the IDENTITY of the custodian of such exemplars.

11 RESPONSE TO INTERROGATORY NO. 30:

12 See general objection 4. Union Carbide also objects
13 to this interrogatory on the grounds that it is overly broad,
14 unduly burdensome and harassing. Subject to its objections,
15 Union Carbide responds as follows:

16 Union Carbide sold its Calidria business in 1985.
17 However, Union Carbide possesses an exemplar of at least one
18 unused Calidria package. Upon plaintiff's request, Union
19 Carbide will make such exemplars of its Calidria packaging,
20 which it has in its possession, for review and replication at a
21 suitable time and place. The exemplar or exemplars are
22 presently in the possession of Union Carbide's custodian of
23 documents, Mrs. Vina Shatah, Kelley Drye & Warren, Six Stamford
24 Forum, Stamford, Connecticut 06901.

25 INTERROGATORY NO. 31:

26 Did THIS DEFENDANT put warnings of asbestos-related
27
28

1 health hazards on bags of RAW ASBESTOS FIBER? If so, please
2 state:

- 3 a) the working of such warning(s), including size,
4 location, and color;
5 b) whether the warning was put on a tag attached to
6 the bags;
7 c) the date such warning(s) was first used;
8 d) whether any change was made in the wording of such
9 warnings, the date(s) of such change, and the
10 reasons for such change.

11 RESPONSE TO INTERROGATORY NO. 31:

12 See Union Carbide's response to interrogatory no. 26.

13 INTERROGATORY NO. 32:

14 Did THIS DEFENDANT put warnings of asbestos-related
15 health hazards on the packaging or containers of
16 ASBESTOS-CONTAINING PRODUCT(S)? If so, please state:

- 17 a) the wording of such warnings, including size,
18 location on the packaging or containers, and color;
19 b) the date such warning(s) was first used;
20 c) whether any change was made in the wording of such
21 warning(s), the date(s) of such change, and the
22 reason(s) for such change.

23 RESPONSE TO INTERROGATORY NO. 32:

24 See general objection 4. Union Carbide also objects
25 to this interrogatory on the grounds that it is overly broad,
26 unduly burdensome and not reasonably calculated to lead to the
27 discovery of admissible evidence.
28

1 INTERROGATORY NO. 33:

2 Has THIS DEFENDANT distributed any brochures or
3 pamphlets that contain warnings of any asbestos-related health
4 hazards; if so, please state:

- 5 a) the wording of such warning;
6 b) the method used to distribute such brochures or
7 pamphlets;
8 c) the date(s) such brochures or pamphlets were first
9 issued;
10 d) whether THIS DEFENDANT has exemplar(s) of such
11 brochures or pamphlets;
12 e) the IDENTITY of the custodian of such exemplar(s).

13 RESPONSE TO INTERROGATORY NO. 33:

14 See general objection 4. Union Carbide objects to his
15 interrogatory on the grounds that it is overly broad, unduly
16 burdensome, vague and ambiguous and not reasonably calculated
17 to lead to the discovery of admissible evidence. Subject to
18 its objections, Union Carbide responds as follows:

19 See Union Carbide's response to interrogatory no. 26.
20 During the early days of Union Carbide's Calidria business
21 (which began in 1963), medical and industrial health officials
22 at Union Carbide issued asbestos toxicology reports which were
23 distributed to sales and other appropriate personnel. Warning
24 labels were added to Calidria packages in 1968 and
25 toxicological information first appeared in sales literature in
26 that year. Material Safety Data Sheets were mailed to Calidria
27
28

1 customers beginning in 1972. AIA/NA information pamphlets were
2 made available to customers starting in 1972 and were mailed to
3 customers beginning in 1977 at the latest.

4 The health and safety literature made available and
5 disseminated by Union Carbide to its Calidria customers warned
6 of possible serious adverse health effects associated with the
7 excessive inhalation of asbestos fiber, advised customers on
8 ways to control or avoid such hazards, including the use of
9 respirators as a way to avoid the hazards. In addition to the
10 dissemination of health and safety information, Union Carbide
11 took active steps to help insure that Calidria was handled and
12 used in a clean and safe manner and environment: Union Carbide
13 employed shrink-wrap, tight-fitting packaging to prevent
14 leakage, spillage, or dust emission during the shipment of
15 Calidria; Union Carbide also developed pelletized forms of
16 Calidria which would reduce dust emission; and starting in
17 1972, Union Carbide offered to take dust counts of the premises
18 of Calidria customers in order to help them maintain a safe
19 working environment, a service which many Calidria customers
20 utilized (Calidria was not sold to the general public or other
21 "end-users", but rather was marketed only to manufacturers or
22 producers who used Calidria in their products or production
23 processes). Dr. Harry Rhodes, an industrial hygienist,
24 supervised Union Carbide's dust monitoring program.

25 Upon plaintiff's request, Union Carbide will make
26 copies of results of such dust counts available to the
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1 plaintiff for review and duplication at a suitable time and
2 place.

3 Starting September 1, 1972 Union Carbide distributed
4 Material Safety Data Sheets setting forth precautions and
5 instructions for the proper and safe use of Calidria. In
6 addition, listed below are brochures and documents which have
7 been made available by Union Carbide to Union Carbide's
8 Calidria customers, many of which contained information on
9 potential hazards associated with excessive asbestos exposure
10 and information as to how to control or avoid such hazards.
11 Since Union Carbide sold the Calidria business in 1985, the
12 material listed below has not been in use by Union Carbide.
13 Except where the dates are stated herein, the time of
14 publication and the author of each item is presently unknown.

15 I. GENERAL

- 16 A. "Calidria" Booklet, John Crane
17 B. Asbestos Fibers, R. Byrne
18 C. Business Reply Card, John Crane
19 D. Rubber Booklet, John Crane
20 E. Grinding Asbestos Pellets, R. Byrne
21 F. FDA Status - Asbestos in Paper.
22 G. New Additives Induce Thixotrophy - Reprint
23 of John Myers Speech.
24 H. New Idria Chrysotile an Unusual Ore Yields.
25 New Products, R. Woolery
26 I. Cationic Asbestos for Waste Water Treatment,
27 John Myers
28

- 1 J. Asbestos Products for Oil Pollution Control,
2 John Myers
3 K. Zeta Potentials of Some Minerals.
4 L. US Patent Office - Waste and Water
5 Treatments, R. Woolery
6 M. Mineralogy of the Coalinga Asbestos Deposit,
7 Mumpton and Thompson
8 N. Bulk Handling Demonstration
9 O. Electron Micrograph Illustrations.
10 P. Asbestos Magazine Reprinting - John Myers -
11 Pellets.
12 Q. Rubber World Reprint.
13 R. Suggested Primer Sealer for Masonry and
14 Weathered Roofing, 3JG-123B.
15 S. Suggested Exterior White Hi-Build Flexible
16 Coating, 3JG-124B.
17 T. Suggested Exterior White Insulating Roof
18 Coating, 3JG-121B.
19 U. Suggested Weather-Barrier Roof Coating and
20 Lagging Compound, E-1297.

21 **II. RESIN GRADE PRODUCTS**

22 **A. General.**

- 23 1. "Calidria" RG-144 & RG-244, John Myers
24 2. Use of Cowles Dissolver, R. E. Byrne
25 3. "Calidria" RG Products for Vinyl
26 Plastisol Sealant Applications.
27
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- 1 4. "Calidria" Asbestos for a High Build
- 2 Dip Coating Plastisol NF-12.
- 3 5. "Calidria" RG-144 & RG-244 Asbestos in
- 4 PVC Plastisols.
- 5 6. Rubber Research Elastomerics.
- 6 7. Plasticizer Viscosity Control with
- 7 "Calidria" Asbestos RG-244 & RG-144.
- 8 B. RG-110 (Price Schedule).
- 9 1. Viscosity Control Agent for Asphaltic
- 10 Compounds.
- 11 2. Polyester Premixes Comparative Cost &
- 12 Performance Data.
- 13 C. RG144 (Price Schedule).
- 14 1. RG-144 Brochure, John Crane
- 15 2. RG-144 Performance Data, John Crane
- 16 3. RG-144 Product Characteristics.
- 17 4. RG Asbestos Improves Thixotropic
- 18 Properties of Highway Markers.
- 19 5. PVP Reprint.
- 20 6. Asbestos Beefs Up Plastics & Adhesives
- 21 to Extend Their Use.
- 22 D. RG-244 (Price Schedule).
- 23 1. RG-244 Brochure, John Crane
- 24 2. RG-244 Comparative Performance
- 25 Characteristics, John Crane
- 26 3. RG-244 Product Characteristics &
- 27 Specifications.
- 28

- 1 4 Ultrasonic Dispersion of RG-244, B. L.
- 2 Ingalls
- 3 5. RG-244 as a Thixotrope for Polyester
- 4 Resins, B. L. Ingalls
- 5 6. Polyester Putty & Patching Compounds.
- 6 7. "Epoxy Coal Tar Coatings."
- 7 8. "Chlorinated Rubber Roofing Compound",
- 8 B. L. Ingalls
- 9 9. High Build Vinyl Maintenance Paints.
- 10 10. Zinc-Rich Primers.
- 11 11. Vinyl Coal Tar Formulation Suggestions.
- 12 12. Formulating Plastisol Sealants with
- 13 Silane Adhesion Promoters.
- 14 13. RG-244 Health Brochure.
- 15 E. RG-600 Brochures.
- 16 1. Cost Effectiveness Optimization of
- 17 Reinforced Polyolefins; 10/4/76 (Ancker
- 18 & Leung).
- 19 2. RG-600 Inquiry Form, John Crane
- 20 3. Coupled Chrysotile Asbestos Reinforced
- 21 Thermoplastics (Ancker).
- 22 4. RG-600 Request Form, John Crane
- 23 5. RG-600 Patent Literature - 3,939,278;
- 24 December 23, 1975.
- 25 6. RG-600 Health Brochure.
- 26
- 27
- 28

7. Reinforced Polyolefins for Large
Structural Foam Parts; 2/8-11/77, Michno
8. Structural Foam is Launched into an Era
of Great Diversification; August 1976.

III. STANDARD GRADE PRODUCTS

A. General.

1. "Calidria" Asbestos Standard Grade
Products, Typical Properties, John Myers

B. SG-100 (Price Schedule).

1. SG-100 "Calidria" Asbestos for Use in
Vinyl and Asphalt Floor Coverings.
2. SG-100 Saves Up to One-Half (12) the
Amount of Asbestos.
3. Flintkote Report.

C. SG-130 (Price Schedule).

D. SG-200SG200X (Price Schedule).

E. 1. SG-200SG-200X Product Characteristics.

F. 2. TJC Brochure.

3. UCAR Latex 153 for Water-Based Caulks
and Sealants.

4. Typical Product Characteristics and
Specifications SG-210.

5. Suggested Interior Texturing or
Exterior Spackling Formulation
(17-CHR-41).

1 IV. HIGH PURITY

2 A. General.

- 3 1. Effects of Chrysotile Asbestos
4 Additions to Cellulosic Paper - RGW.
5 2. "Calidria" High Purity Asbestos for
6 Porosity Control, Pinhole Reduction,
7 and Improvement in Two-Sidedness.
8 3. Properties of Asbestos Suitable for Use
9 in Cellulosic Paper, Naumann.
10 4. How High Purity Asbestos is Used for
11 Pitch Control in Papermaking, Woolery.
12 5. Paper Trade Journal - Asbestos Product
13 Aids Retention, Boosts Opacity and
14 Disperses Pitch, Ingalls.
15 6. "Calidria" Asbestos for Paper Coatings.

16 B. High Purity Open (Price Schedule for HOP &
17 HPP).

- 18 1. Typical Product Characteristics for
19 HPO, John Myers.
20 2. The Trial of Calidria HOP in New
21 Rochelle Water Pollution Control Plant.
22 3. Addition Rates for HOP in Primary Waste
23 Treatment, John Myers.
24 4. Suggested Dark Green Acrylic Tennis
25 Court Topcoat E-1400.
26
27
28

1 C. High Purity Pellets.

- 2 1. Typical Product Characteristics for
3 HPP, John Myers.

4 V. TITANATED PRODUCTS

5 A. T-135 (Price Schedule).

- 6 1. T-135 Opacifying Agent.
7 2. "Calidria" Asbestos T-135 for Viscosity
8 Control & Pigmentation.
9 3. T-135-0 for Spray Acoustic & Texture
10 Compounds.
11 4. Chemical 26 Reprint - Checking Opacity.

12 VI. COATING GRADES

13 A. CG-135 (Price Schedule).

14 VII. DRILLING

15 A. Oil and Gas Journal Reprint.

16 In addition, the following material, some of
17 which is listed above in the form of
18 brochures, articles or addresses, has been
19 prepared:

- 20 1. "Calidria Asbestos RG-244 - An
21 Economical Effective Thickener and
22 Thixotrope for Polyester Resins,
23 Plastisols, Epoxies, Phenolic Adhesives
24 Organosols" 9/70.

- 1 2. "CALIDRIA Asbestos, Resin-Grade 144, An
2 Effective Low Cost Thickening Agent and
3 Thixotrope for Epoxy Resin Systems" -
4 7/71, John Crane.
- 5 3. "CALIDRIA Asbestos Resin-Grade - 144
6 and Resin-Grade 224", John Myers.
- 7 4. "CALIDRIA Asbestos, Low Cost Highly
8 Effective Reinforcer and Filler for
9 Rubber, Two Grades: High-Purity and
10 T-135" - 10/70, John Crane.
- 11 5. "CALIDRIA Asbestos, a Unique and
12 Versatile Fiber With Proven
13 Applications as an Extender, Thickener,
14 Reinforcer, Opacifier" 574.
- 15 6. "New Additives Induce Thixotrophy,
16 Provide Sag and Viscosity Control,"
17 presented by John L. Myers to Western
18 Coatings Technology Society Meetings in
19 Denver, Los Angeles, San Francisco,
20 Portland, Seattle, and Vancouver, in
21 May 1969.
- 22 7. "Asbestos," by Robert E. Byrne, Jr.,
23 Area Manager, CALIDRIA Asbestos
24 Marketing and Technology, Mining and
25 Metals Division, Union Carbide
26
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1 Corporation, published March, 1972 in
2 Modern Plastics Encyclopedia,
3 McGraw-Hill, Inc.

- 4 8. "Calidria Asbestos Pellets" by John L.
5 Myers, Former Product and Production
6 Manager for Union Carbide's Calidria
7 Operation, published October 1971 in
8 Asbestos, reprinted by Union Carbide.

9 VIII. HEALTH AND SAFETY

10 A. General.

- 11 1. "Material Safety Data" for CALIDRIA
12 Asbestos published September 1, 1972
13 and revised September 1, 1976 by Union
14 Carbide Corporation.
15 2. "Chrysotile Asbestos in Plastics,"
16 presented May 14, 1974 at the 32nd
17 annual technical conference of the
18 Society of Plastics Engineers at San
19 Francisco, by John L. Myers, Marketing
20 Manager, Asbestos, Union Carbide.
21 3. "Handling Asbestos - Chrysotile
22 Asbestos in Plastics," June 16, 1975,
23 by John L. Myers, Marketing Manager
24 Asbestos Union Carbide.
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- 1 4. "Grinding CALIDRIA Asbestos Pellets,"
2 by Robert E. Byrne, Jr., Area Manager,
3 CALIDRIA Asbestos, Marketing and
4 Technology, Mining and Metals Division,
5 Union Carbide Corporation.
- 6 5. Brochure "'Calidria' Asbestos Pellets
7 Health and OSHA Information" Published
8 November 1, 1977 by Metals Division,
9 Union Carbide Corporation, Niagara
10 Falls, New York.
- 11 6. "Consumer Safety in Plastics System
12 Containing Bound Asbestos Fibers
13 presented on November 9, 1977 at the
14 NATEC Meeting of the Society of
15 Plastics Engineers at Denver by Dr.
16 H.B. Rhodes, Manager Marketing
17 Services-Asbestos, Union Carbide.
- 18 7. "What You Should Know About Asbestos
19 and Health," published by the Asbestos
20 Information Association, disseminated
21 by Union Carbide.

22 B. RG-244.

- 23 1. Brochure "'CALIDRIA' Asbestos RG-244 -
24 Health and OSHA Information," published
25 February 1, 1975 and revised October 1,
26 1977 by Marketing and Technology
27
28

1 Department, Mining and Metals Division,
2 Union Carbide Corporation, Niagara
3 Falls, New York.

- 4 2. "'CALIDRIA' Asbestos RG-244 - Typical
5 Chemical Analysis," date of publication
6 unknown.

7 IX. AIA MATERIAL

8 A) In addition to the above, Union Carbide made
9 the following documents and brochures, which
10 were prepared and published by the Asbestos
11 Information Association, available to
12 Calidria customers:

- 13 1. Testimony by George W. Wright, M.D.
14 before U.S. Dept. of Labor,
15 Occupational Safety & Health Hearing on
16 Proposed Occupational Asbestos
17 Standard, March 14-17, 1972.
18 2. Testimony by J. Corbett McDonald, M.C.
19 - same as above.
20 3. OSHA Regulations - 6/7/72.
21 4. EPA Regulations - 4/6/73.
22 5. NY Times Article and Rebuttals (Article
23 - 1/21/73, Rebuttals - 2/25/73).
24 6. AIA Response to the Wall Street Journal
25 - 6/15/72.
26
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- 1 7. "Airborne Asbestos" National Research
- 2 Council, 1971.
- 3 8. "Airborne Asbestos" - Summary.
- 4 9. "Airborne Asbestos" - References.
- 5 10. Asbestos Bulletin (Asbestos Information
- 6 Committee, London - 9/72).
- 7 11. CIBA GEIGY - UK 2/72.
- 8 12. QAMA Folder
- 9 13. WHO Report - 10/72
- 10 14. Target Health Hazard Fact Sheet (SILICA)
- 11 15. "Asbestos Has Its Defenders" - The
- 12 Journal of Commerce, 4/20/73
- 13 16. "The Familiar Aroma of Panic" -
- 14 Editorial, Plastics Technology 3/73
- 15 17. Dust Counting - S. G. Bayer, R. D.
- 16 Zummalde, T. A. Brown - Feb. 1969 U.S.
- 17 Dept. of Health, Education and Welfare
- 18 18. Dust Monitoring Equipment & Costs -
- 19 2/19/73
- 20 19. AIA - "Protecting The Asbestos Worker"
- 21 20. AIA - "Asbestos and Health"
- 22 21. AIA - "The Asbestos Information
- 23 Association/North America"
- 24 22. AIA - "Asbestos and Health Questions
- 25 and Answers"
- 26
- 27
- 28

- 1 23. AIA - "What Asbestos Is: How and Where
- 2 It Is Used"
- 3 24. The Northern Miner - "Asbestos
- 4 Completely Exonerated etc." - 4/19/73
- 5 25. Partnership for Prevention - "The
- 6 Insulation Industry Hygiene Research
- 7 Program" - 4/70
- 8 26. Asbestos - Reprint from National Safety
- 9 News - 10/73
- 10 27. AIA Answer to TIME magazine - 2/1/74
- 11 28. AIA/"What Every Employee Should Know
- 12 About Asbestos" -2/74
- 13 29. AIA Response to "Consumers Research" -
- 14 1/28/74
- 15 30. "Asbestos Health Question Perplexes
- 16 Experts," C&EN - 12/10/73
- 17 31. Disputes on the Safety of Asbestos -
- 18 New Scientist 3/7/74
- 19 32. JLM Speech (SPE Paper)
- 20 33. RG-244 Health Booklet
- 21 34. Asbestos in the Atmosphere - AIA/NA
- 22 35. Asbestos in Water - AIA/NA
- 23 36. Asbestos & Silica Dust in the Drywall
- 24 Industry. Part 1 - Nov/Dec. 1975, Dr.
- 25 Rhodes.
- 26
- 27
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- 1 37. Asbestos & Silica Dust in the Drywall
2 Industry. Part 2 - Jan./Feb. 1976, Dr.
3 Rhodes.
4 38. Detection of Chrysotile Asbestos in
5 Airborne Dust from Thermosetting Resin
6 Grinding. 1975, Faulring.
7 39. AIA/NA Molding & Fabrication of
8 Asbestos-Containing Plastic Products,
9 Work Practices
10 40. Instructions for Sampling of Airborne
11 Asbestos Fibers
12 41. Procedure for Pump Calibration used for
13 Monitoring of Asbestos Dust Emissions
14 B) The following information pamphlets were
15 mailed to Calidria customers beginning in
16 1977:
17 1. "Calidria Asbestos SG-130 and SG-210"
18 sales brochure (1968).
19 2. "Safe Use of Calidria RG244" (February
20 1973).
21 3. "Calidria Asbestos RG-600 Health and
22 OSHA Information" (February 1, 1975).
23 4. "Calidria Asbestos RG 244 Health and
24 OSHA Information" (October 1, 1977).
25 5. "Calidria Asbestos Pellets Health and
26 OSHA Information" (November 1, 1977).
27
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- 1 6. . Letter to Calidria Customers with
- 2 health and safety enclosures (October
- 3 24, 1977).
- 4 7. Letter to Calidria distributors with
- 5 health and safety enclosures (September
- 6 10, 1979).
- 7 8. Letter to Calidria customers with
- 8 health and safety enclosures (August
- 9 20, 1979).
- 10 9. Letter to Calidria Customers with
- 11 health and safety enclosures (October
- 12 1, 1980).
- 13 10. Letter to Calidria Customers with
- 14 health and safety enclosures (November
- 15 23, 1981).
- 16 11. Letter to Calidria Customers with
- 17 health and safety enclosures (December
- 18 9, 1981).

19 Union Carbide had used two cautionary statements on
20 its Calidria packaging: The first cautionary statement was
21 used from June 22, 1968 through May 1972, and read as follows:
22 "Warning: Breathing dust may be harmful. Do not breathe
23 dust." The second cautionary statement was prescribed by OSHA
24 in 1972 and was first printed on Calidria packaging in June of
25 that year and was used by Union Carbide until the sale of the
26 Calidria mine and mill in 1985; this second cautionary
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1 statement read as follows: "Caution. Contains asbestos
2 fibers. Avoid creating dust. Breathing asbestos dust may
3 cause serious bodily harm."

4 Union Carbide's custodian of records is Mrs. Vina
5 Shatah, Kelley Drye & Warren, Six Stamford Forum, Stamford,
6 Connecticut 06901.

7 INTERROGATORY NO. 34:

8 Did THIS DEFENDANT warn its employees and/or CONTRACT
9 UNIT(S), anywhere in the United States, that exposure to
10 asbestos could be hazardous to human health? If so, state:

11 a) whether copies of DOCUMENTS containing such
12 warnings exist;

13 b) the IDENTITY of the custodian of such DOCUMENTS.

14 RESPONSE TO INTERROGATORY NO. 34:

15 See general objections 4 and 5. Union Carbide objects
16 to this interrogatory on the grounds that it is overly broad,
17 unduly burdensome, vague and ambiguous and not reasonably
18 calculated to lead to the discovery of admissible evidence.

19 INTERROGATORY NO. 35:

20 State the IDENTITY of medical directors and/or
21 industrial hygienists retained by THIS DEFENDANT in the United
22 States.

23 RESPONSE TO INTERROGATORY NO. 35:

24 See general objection 4. Union Carbide also objects
25 to this interrogatory on the grounds that it is overly broad,
26 unduly burdensome, oppressive and harassing, irrelevant,

1 immaterial, and unlikely to lead to the discovery of admissible
2 evidence. Subject to its objections, Union Carbide responds as
3 follows:

4 Union Carbide's Medical Department was formally
5 organized in 1938. Prior to that Union Carbide and Union
6 Carbide facilities consulted physicians as appropriate upon
7 need. The medical directors at Union Carbide have included the
8 following individuals for the years respectively indicated
9 below:

10 (1) Girard Cranch
11 [1938-1945]

(4) Thomas A. Lincoln
[1978-1985]

12 (2) Thomas Nale
13 [1945-1963]

(5) T. Guy Fortney
[1985-present]

14 (3) John J. Welsh
15 [1963-1978]

16 The present duties of Union Carbide's medical director
17 include coordination of all of Union Carbide's medical
18 programs, including employee physical examination programs;
19 recommendations with respect to medical policies, standards and
20 procedures; and administration of medical services at Union
21 Carbide's corporate headquarters, a corporate epidemiology
22 program, a medical program for employees traveling overseas and
23 an alcoholism prevention and treatment program. The medical
24 director reports to the corporate Vice President in charge of
25 Union Carbide's Community and Employee Health, Safety and
26 Environmental Protection Department.
27
28

1 In addition, Dr. Hilton Lewinsohn currently serves as
2 Medical Director, Chemicals & Plastics Group. Dr Lewinsohn is
3 a recognized expert in asbestos-related medical matters and
4 pathologies.

5 Union Carbide's various divisions employ Industrial
6 Hygienists for their respective facilities and premises. C.C.
7 Smith currently serves as Vice President in charge of Union
8 Carbide's of Community and Employee Health, Safety and
9 Environmental Protection Department which is primarily
10 responsible for establishing corporate HS&EP standards and for
11 assessing business group performance against those standards
12 and applicable governmental requirements. During the period of
13 the Calidria business, Dr. Harry Rhodes, an industrial
14 hygienist, supervised Union Carbide's dust count program. See
15 Union Carbide's response to interrogatory no. 39.

16 INTERROGATORY NO. 36:

17 Has any employee of THIS DEFENDANT testified by
18 deposition on behalf of THIS DEFENDANT in a third-party case,
19 brought in the United States, wherein the plaintiff has alleged
20 an asbestos-related injury? If so, for each such third party
21 case, please state:

- 22 a) the caption and case number;
23 b) the court of filing including state and county;
24 c) the date of deposition;
25 d) the name and address of plaintiff's counsel of
26 record.

1 RESPONSE TO INTERROGATORY NO. 36:

2 See general objections 4 and 5. Union Carbide objects
3 to this interrogatory on the grounds that it is overly broad,
4 unduly burdensome, vague and ambiguous, and not reasonably
5 calculated to lead to the discovery of admissible evidence.
6 Subject to its objections, Union Carbide responds as follows:

7 Union Carbide has presently identified the following
8 testimony offered in asbestos-related law suits by Union
9 Carbide employees:

10 1) John L. Myers

11 A) Lester Rice v. Union Carbide Corporation,
12 U.S.D.C., District of South Carolina, Civil Action
 No. 81-977-9, April 9, 1982.

13 B) Simon DeWard v. Johns-Manville, et al.,
14 Superior Court for the County of Los Angeles,
 Civil Action No. C-298717 (and related cases),
15 August 30, 1984.

16 C) Bobby R. Sanford v. Johns-Manville Sales Corp.
17 et al., Southern District of Texas, Galveston
 Division, No. G-82-325, September 4, 1986.

18 D) Shirley Tate v. Certain-Tweed Corp., et al.,
19 District Court, 46th Judicial District, Hardeman
 County, Texas, No. 7591.

20 Shirley Tate v. 3 M Corporation, et al.,
21 District Court, 94th Judicial District, Nueces
 County, Texas, No. 85-1559-C, July 27, 1987.

22 E) Union Carbide Asbestos Removal Litigation
23 Pennsylvania Cases, Bridgeport, Connecticut
 April 28, 1988.

24 2) Carl U. Dernehl, M.D.

25 A) John Worm v. Rubicon Chemicals, Inc.,
26 et al., U.S.D.C., District of Minnesota, 4th
 Division, St. Paul, Minnesota, No. 4-81-748,
27 October 21, 1982.

- 1 B) Henry Garry v. Union Carbide Corporation,
2 U.S.D.C., Eastern District of Arkansas, Western
3 Division, Civil No. LR-C-83-921, February 11, 1985.
3. Robert E. Peele
- 4 A) Asbestos Cases
5 Huntington, West Virginia, September 9-10, 1981.
- 6 B) Asbestos Cases
7 Southern District of Georgia, October 7, 1981.
- 8 C) Freda K. Knight v. Union Carbide Corporation,
9 U.S.D.C. Southern District of West Virginia,
10 Huntington, W.VA., Civil Action No. 84-3425, May
11 22, 1987.
- 4) William Paul Woods
- 12 A) Keith Edwin Gibson v. Armstrong World
13 Industries, Inc., et al., U.S.D.C. District of
14 Colorado, Consolidated Civil Action No. 83-K-1756;
15 Civil Action No. 84-K-912, May 18, 1987.
- 5) Richard J. Sexton, M.D.
- 16 A) Freda K. Knight v. Union Carbide Corporation,
17 U.S.D.C. Southern District of West Virginia,
18 Huntington, W.VA., Civil Action No. 84-3425, May
19 14, 1987.
- 6) Bert K. Barton
- 20 A) James W. Manisto v. American Brake Block
21 Corporation, et al., District Court, First
22 Judicial District, Dakota County, Minneapolis,
23 Minnesota, NO. C-5-88-1008, January 26, 1989.
- 24 B) Robert P. Payne, Josephine Stala as
25 Administratrix of the Estate of Stanley Stala v.
26 Advocate Mines, et al., Supreme Court of N.Y. Law
27 Div., Middlesex County, Doc. No. L-10917-85,
28 October 27, 1988.
- 7) Thomas J. Hall, M.D.
- A) James W. Manisto v. American Brake Block
Corporation, et al., District Court, First
Judicial District, Dakota County, Minneapolis,
Minnesota, NO. C-5-88-1008, January 10, 1989.

1 8) Howard Stephens

2 A) Keith Edwin Gibson v. Armstrong World
3 Industries, Inc., et al., U.S.D.C. District of
4 Colorado, Consolidated Civil Action No. 83-K-1756;
5 Civil Action No. 84-K-912, May 18, 1987.

6 9) Myron Bennett

7 A) Keith Edwin Gibson v. Armstrong World
8 Industries, Inc., et al., U.S.D.C. District of
9 Colorado, Consolidated Civil Action No. 83-K-1756;
10 Civil Action No. 84-K-912, May 18, 1987.

11 10 Harrison B. Rhodes, PhD.

12 A) Marie B. Soignet v. Montello, Inc., et al.,
13 U.S.D.C. for Eastern District of Texas, Beaumont
14 Division, B-86-1193-CA, January 19, 1989.

15 INTERROGATORY NO. 37:

16 Has THIS DEFENDANT been a member of the following:

17 a) Asbestos Textile Institute (ATI);

18 b) Industrial Hygiene Foundation and/or Industrial
19 Health Foundation (IHF);

20 c) Mineral Wool Institute;

21 d) Industrial Mineral Insulation Manufacturers
22 Institute;

23 e) Magnesia Silica Insulation Manufacturers
24 Association;

25 f) National Insulation Manufacturers Association
26 (NIMA);

27 g) Thermal Insulation Manufacturers Association
28 (TIMA);

h) Asbestos Information Association (AIA);

i) Quebec Asbestos Mining Association (QAMA);

- 1 j) National Safety Council;
2 k) Asbestos Cement Producers Association;
3 l) Refractories Institute;
4 m) any other organization or associations of
5 manufacturers, miners, distributors, importers,
6 labellers, suppliers and/or sellers of ASBESTOS-
7 CONTAINING PRODUCTS;
8 (i) please state the name(s) of such organizations
9 or associations.

10 RESPONSE TO INTERROGATORY NO. 37:

11 See general objection 4. Union Carbide objects to
12 this interrogatory on the ground that it is overly broad,
13 unduly burdensome, vague and ambiguous, and not reasonably
14 calculated to lead to the discovery of admissible evidence.
15 Subject to its objections, Union Carbide responds as follows:

16 Union Carbide was a member of the Industrial Health
17 Foundation, the American Industrial Health Association and
18 Asbestos Information Association/North America. Union Carbide
19 may also have cooperated with work undertaken by the
20 Pneumoconiosis Research Council of the United Kingdom, The
21 Organization Resources Recovery Organization, and the
22 Insulation Industry Hygiene Research Program. Union Carbide or
23 Union Carbide personnel also participated in activities of the
24 National Safety Council. Union Carbide has no presently
25 available record of association with any other organization
26 listed in the plaintiff's interrogatory.
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1 possesses files which may contain miscellaneous correspondence
2 to or from the AIA or other organizations. Upon the
3 plaintiff's request, Union Carbide will make such relevant,
4 non-privileged files available for review and duplication at a
5 suitable time and place.

6 INTERROGATORY NO. 39:

7 Has THIS DEFENDANT received any DOCUMENT(S) containing
8 results or conclusions of any studies and/or tests conducted by
9 the Saranac Laboratory at the Trudeau Foundation relating to
10 the human health consequences of exposure to asbestos? If so,
11 please:

- 12 a) IDENTIFY all such DOCUMENT(S);
13 b) state the date upon which THIS DEFENDANT first
14 received such DOCUMENT(S);
15 c) the IDENTITY of the custodian of such DOCUMENT(S).

16 RESPONSE TO INTERROGATORY NO. 39:

17 See general objection 4. Union Carbide also objects.
18 to this interrogatory on the grounds that it is overly broad,
19 unduly burdensome, vague and ambiguous and not reasonably
20 calculated to lead to the discovery of admissible evidence.
21 Subject to its objections, Union Carbide responds as follows:

22 Other than published material available to the general
23 public and documents produced in other law suits by parties
24 other than Union Carbide, Union Carbide has not been able to
25 locate any documents that contain any results or conclusions of
26 any studies and/or tests conducted by the Saranac Laboratory at
27
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1 INTERROGATORY NO. 38:

2 For each organization, association or other entity
3 identified in your Response to Interrogatory No. 37, please
4 state:

- 5 a) the dates during which THIS DEFENDANT was a member;
6 b) the name(s) of any publication(s) received by THIS
7 DEFENDANT from such association or organization;
8 c) the name of such committee or subcommittee of
9 which THIS DEFENDANT was a member, and the dates
10 of such committee or subcommittee membership.

11 RESPONSE TO INTERROGATORY NO. 38:

12 See general objection 5. Union Carbide also objects
13 to this interrogatory on the grounds that it is overly broad,
14 unduly burdensome and not reasonably calculated to lead to the
15 discovery of admissible evidence. Union Carbide further
16 objects to this interrogatory on the grounds that it is not
17 limited by time or subject matter to information that is
18 relevant to this case. Subject to its objections, Union
19 Carbide responds as follows:

20 See Union Carbide's response to interrogatory no. 37.
21 Union Carbide responds that it presently can find no documents
22 relating to the IHF in its files. With respect to AIA
23 documents, see Union Carbide's response to interrogatory no.
24 39. Union Carbide also has in its possession a copy of at
25 least one edition of the newsletter published by the Insulation
26 Industry Hygiene Research Program. In addition, Union Carbide
27
28

1 the Trudeau Foundation relating to the human health
2 consequences of exposure to asbestos.

3 INTERROGATORY NO. 40:

4 State whether THIS DEFENDANT has ever maintained a
5 library (or libraries) in the United States which contains
6 books, articles, periodicals, journals and/or reference
7 materials that relate to the subjects of asbestos, industrial
8 hygiene, medicine, safety, occupational disease and/or
9 engineering? If so, state:

- 10 a) the date each such library was established;
11 b) the location of each such library;
12 c) the IDENTITY of each librarian or other person in
13 charge of such library.

14 RESPONSE TO INTERROGATORY NO. 40:

15 See general objection 4. Union Carbide objects to
16 this interrogatory on the grounds that it is overly broad,
17 unduly burdensome, vague and ambiguous, and not reasonably
18 calculated to lead to the discovery of admissible evidence.
19 Subject to its objections, Union Carbide responds as follows:

20 During the early 1960's, Union Carbide established and
21 maintained a medical library. In December, 1981, the medical
22 library merged into the general corporate library, located in
23 Union Carbide's World Headquarters: Union Carbide Corporation;
24 39 Old Ridgebury Road; Danbury, Connecticut 06817. The chief
25 librarian of the corporate library is Mr. Roger Miller. In
26 1983, Union Carbide's medical department organized its own
27
28

1 library, located also in Union Carbide's World Headquarters,
2 but apart from the corporate library. The medical library is
3 presently overseen by Mr. Marvin Huffman.

4 Some medical-related material may presently be located
5 at one of Union Carbide's "satellite" libraries; the following
6 is a list of satellite libraries:

7 Union Carbide Corporation
8 Parma Technical Center
9 Technical Information Service
P. O. Box 6116
Cleveland, Ohio 44101

10 Chemical Hygiene Fellowship
11 Carnegie-Mellon Institute of Research
12 4400 Fifth Avenue
Pittsburgh, Penna. 23513

13 Union Carbide Corporation
14 Chemical & Plastics
Library, Bldg. 770
P. O. Box 8361
South Charleston, W. Va. 25303

15 Union Carbide Corporation
16 CTS Info. Center Office
17 Spine Bldg. 02, Sect. 15-16
Tarrytown Technical Center
Tarrytown, N.Y. 10591

18 Union Carbide Corporation
19 Chemical & Plastics, Bldg. 740
20 South Charleston Tech. Center
P. O. Box 8361
South Charleston, W. Va. 25303

21 Union Carbide Corporation
22 Tarrytown Technical Center
23 Library and Tech. Info. Serv.
Tarrytown, N.Y. 10591

24 Union Carbide Canada Ltd.
25 Plastics and Chemicals
26 Technical Center Library
P. O. Box 700, Pt. Aux Trembles
Quebec, H1B 5K8, Canada

- 1 Union Carbide Canada Ltd.
2 Reference Library
3 123 Eglinton Avenue, E.
4 Toronto, Ontario M4P1J3
5 Canada
6
7 Union Carbide Corporation
8 Chemical & Plastics
9 Library
10 Tech. Info. Service
11 Bldg. 200
12 Bound Brook, N.J. 08805
13
14 Union Carbide Corporation
15 Chemical & Plastics, Bldg. 200
16 South Charleston, Tech. Center
17 P. O. Box 8361
18 South Charleston, W. Va. 25303
19
20 Union Carbide Corporation
21 Law Department
22 Library
23 39 Old Ridgebury Road
24 Danbury, Connecticut 06817
25
26 Union Carbide Corporation
27 Linde Division
28 Technical Library
P. O. Box 44
Tonawanda, N.Y. 14150
Union Carbide Corporation
Linde Division
Technical Library
P. O. Box 24166 (1500 Polco St.)
Indianapolis, Indiana 46224

INTERROGATORY NO. 41:

Has THIS DEFENDANT exchanged documents containing the results of or communicated with any individual or other COMPANY regarding tests and/or studies of the relationship between the inhalation of asbestos fibers and development of disease(s); if so, please state:

- 1 a) each individual or COMPANY with whom the
2 information was exchanged or to whom it was
3 communicated;
4 b) the date(s) of any such exchanges or
5 communications;
6 c) the IDENTITY of the custodian of such documents.

7 RESPONSE TO INTERROGATORY NO. 41:

8 See general objection 4. Union Carbide objects to
9 this interrogatory on the grounds that it is overly broad,
10 unduly burdensome, vague and ambiguous and not reasonably
11 calculated to lead to the discovery of admissible evidence.
12 Subject to its objections, Union Carbide responds as follows:

13 Union Carbide has no presently available record of
14 such correspondence; Union Carbide may have interchanged such
15 information indirectly through its organization affiliations,
16 see Union Carbide's response to interrogatory no. 37. Upon
17 plaintiff's request, Union Carbide will make non-privileged
18 files containing asbestos-related correspondence available to
19 the plaintiff for review and replication at a suitable time and
20 place.

21 INTERROGATORY NO. 42:

22 Has any employee of THIS DEFENDANT testified before
23 the Occupational Safety and Health Administration, the National
24 Institute of Occupational Safety and Health, or any committee
25 or subcommittee of the United States Congress on the inhalation
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1 of asbestos dust and the development of disease; if so, please
2 state:

- 3 a) the entity before whom such testimony was given;
4 b) the date(s) and location(s) of such testimony;
5 c) the IDENTITY of the individual(s) who so testified;
6 d) whether any DOCUMENTS were presented to the entity
7 before which testimony was given;

- 8 e) whether copies of DOCUMENTS presented were
9 retained by THIS DEFENDANT;

10 (i) if so, state the IDENTITY of the custodian of
11 the DOCUMENT(S).

12 RESPONSE TO INTERROGATORY NO. 42:

13 See general objection 4. Union Carbide objects to
14 this interrogatory on the grounds that it is overly broad,
15 unduly burdensome and oppressive and harassing, and seeks
16 information which is not relevant to the subject matters in
17 this case and is not reasonably calculated to lead to the
18 discovery of admissible evidence. Subject to its objections,
19 Union Carbide responds to as follows:

20 According to the best of Union Carbide's present
21 information, the following testimony was provided by
22 individuals formerly associated with Union Carbide in the
23 capacities noted below, and not necessarily on Union Carbide's
24 behalf; their testimony may or may not have pertained to Union
25 Carbide or Union Carbide products:

- 1 1. James W. Rawlings, Former Vice President, Metals
2 Division.
3 3/16/72, Washington, D.C., before U.S. Department
4 of Labor-OSHA hearings on a "Proposed Standard for
5 Occupational Exposure to Asbestos."
6 2. John L. Myers, Product and Production Manager,
7 Asbestos.
8 (i) 9/17/75 and 1/21-22/76, Washington, D.C.,
9 before the OSHA Advisory Committee on
10 "Proposed Standards for Occupational
11 Exposure to Asbestos in the Construction
12 Industry."
13 (ii) 4/27/79, Fresno, California, California
14 Occupational Safety and Health (CAL-OSHA).
15 Standards Board regarding proposed changes
16 in asbestos standards.
17 (iii) 8/30/79, San Diego, California, before the
18 California Occupational Safety and Health
19 (CAL-OSHA) Standards Board, regarding
20 proposed changes in asbestos standards.
21 (iv) 5/29/80, Fresno, California, before the
22 California Occupational Safety and Health
23 (CAL-OSHA) Standards Board, regarding
24 proposed changes in asbestos standards.
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- 1 3. Harrison B. Rhodes, former Technology Manager -
2 Asbestos.
- 3 (i) 8/15/77, before the Consumer Product Safety
4 Commission on "A Proposed Ban on Wall
5 Patching Compounds Containing Asbestos."
- 6 (ii) 3/14/77, New Brunswick, N.J., before the New
7 Jersey Department of Environmental
8 Protection on "A Proposed Regulation
9 Regarding Control and Prohibition of
10 Spray-On Asbestos Surface Coatings."
- 11 (iii) 7/19/78, Washington, D.C., U.S. Department
12 of Labor-OSHA, hearing on proposed
13 rulemaking: "Identification,
14 Classification and Regulation of Toxic
15 Substances Posing a Potential Occupational
16 Carcinogenic Risk."
- 17 (iv) 11/8/78, Sacramento, California, before the
18 California Occupational Safety and Health
19 (CAL-OSHA) Standards Board, regarding
20 proposed changes in asbestos standards.
- 21 (v) 8/30/79 and 9/25/80, San Diego, California
22 Occupational Safety and Health (CAL-OSHA)
23 Standards Board, regarding proposed changes
24 in asbestos standards.
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1 (vi) 2/19/81 and 8/14/81, Toronto, Ontario,
2 Canada, Royal Commission on Matters of
3 Health and Safety Arising from the Use of
4 Asbestos in Ontario.

5 INTERROGATORY NO. 43:

6 At any of the physical facilities identified in the
7 response to Interrogatory No. 15, has THIS DEFENDANT conducted,
8 or caused to be conducted, tests and/or studies of ambient
9 asbestos dust created during the manufacture, processing and/or
10 assembling of ASBESTOS-CONTAINING PRODUCT(S)? If so, please
11 state:

- 12 a) each manufacturing facility, including location
13 and address, at which any such test and/or study
14 was conducted;
15 b) the date of each such test and/or study;
16 c) the individual(s) or entity conducting each such
17 test and/or study;
18 d) whether THIS DEFENDANT has any documents
19 containing the results and/or conclusions of each
20 such study;
21 e) the IDENTITY of the custodian of the documents.

22 RESPONSE TO INTERROGATORY NO. 43:

23 See general objection 4. Subject to its objections,
24 Union Carbide responds as follows:

25 Union Carbide did conduct dust studies at various
26 physical facilities and these studies upon plaintiff's request,
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1 will be made available to the plaintiff for review and
2 duplication at a suitable time and place.

3 During the early days of Union Carbide's Calidria
4 business (which began in 1963), medical and industrial health
5 officials at Union Carbide issued asbestos toxicology reports
6 which were distributed to sales and other appropriate
7 personnel. Warning labels were added to Calidria packages in
8 1968 and toxicological information first appeared in sales
9 literature in that year. Material Safety Data Sheets were
10 mailed to Calidria customers beginning in 1972. AIA/NA
11 information pamphlets were made available to customers starting
12 in 1972 and were mailed to customers beginning in 1977 at the
13 latest.

14 The health and safety literature made available and
15 disseminated by Union Carbide to its Calidria customers warned
16 of possible serious adverse health effects associated with the
17 excessive inhalation of asbestos fiber, advised customers on
18 ways to control or avoid such hazards, including the use of
19 respirators as a way to avoid the hazards. In addition to the
20 dissemination of health and safety information, Union Carbide
21 took active steps to help insure that Calidria was handled and
22 used in a clean and safe manner and environment: Union Carbide
23 employed shrink-wrap, tight-fitting packaging to prevent
24 leakage, spillage, or dust emission during the shipment of
25 Calidria; Union Carbide also developed pelletized forms of
26 Calidria which would reduce dust emission; and starting in
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1 1972, Union Carbide offered to take dust counts of the premises
2 of Calidria customers in order to help them maintain a safe
3 working environment, a service which many Calidria customers
4 utilized (Calidria was not sold to the general public or other
5 "end-users", but rather was marketed only to manufacturers or
6 producers who used Calidria in their products or production
7 processes). Dr. Harry Rhodes, an industrial hygienist,
8 supervised Union Carbide's dust monitoring program.

9 Union Carbide's custodian of records is Mrs. Vina
10 Shatah, Kelley Drye & Warren, Six Stamford Forum, Stamford,
11 Connecticut 06901.

12 INTERROGATORY NO. 44:

13 Has THIS DEFENDANT conducted, or caused to be
14 conducted, any tests and/or studies on ambient asbestos dust
15 levels at any location or job site where its
16 ASBESTOS-CONTAINING PRODUCTS were utilized in the United
17 States; if so, please state:

- 18 a) the location, including name and address, at which
19 each such test and/or study was conducted;
20 b) the individual(s) or entity conducting each such
21 test and/or study;
22 c) the date of each such test and/or study;
23 d) whether THIS DEFENDANT has any DOCUMENTS
24 containing the results and/or conclusions of each
25 such test and/or study;
26 e) the IDENTITY of the custodian of these DOCUMENTS.
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1 RESPONSE TO INTERROGATORY NO. 44:

2 See general objection 4 and Union Carbide's response
3 to interrogatory no. 43. Upon plaintiff's request, Union
4 Carbide will make copies of results of such dust counts
5 available to the plaintiff for review and duplication at a
6 suitable time and place.

7 INTERROGATORY NO. 45:

8 Did THIS DEFENDANT have any laboratory or other
9 facility anywhere in the United States at which it conducted,
10 or caused to be conducted, any tests and/or studies of its
11 ASBESTOS-CONTAINING PRODUCTS to measure the amount of asbestos
12 dust generated by any use for which such products were
13 designed; if so, please state:

- 14 a) the location, including name and address, at
15 which each such test and/or study was conducted;
16 b) the individual(s) or entity conducting each such
17 test and/or study;
18 c) the date of each such test and/or study;
19 d) whether THIS DEFENDANT has any DOCUMENTS
20 containing the results and/or conclusions of each
21 such test and/or study;
22 e) the IDENTITY of the custodian of such DOCUMENTS.

23 RESPONSE TO INTERROGATORY NO. 45:

24 See Union Carbide's responses to interrogatories 43
25 and 44.

1 INTERROGATORY NO. 46:

2 Plaintiffs did not propound an Interrogatory No. 46.

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18 INTERROGATORY NO. 47:

19 Has THIS DEFENDANT notified in writing any individual
20 or COMPANIES to whom it MARKETed RAW ASBESTOS FIBER and/or
21 ASBESTOS-CONTAINING PRODUCT(S), anywhere in the United States,
22 of the potential relationship between exposure to asbestos and
23 disease; if so, please state:

24 a) the date(s) THIS DEFENDANT provided this
25 information;

26 b) the means used for transmittal of such information;
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- 1 c) whether THIS DEFENDANT has any copies of any
2 DOCUMENTS transmitting such information;
3 d) the IDENTITY of the custodian of such documents.

4 RESPONSE TO INTERROGATORY NO. 47:

5 See general objection 4. Union Carbide also objects
6 to this interrogatory on the grounds that it is overly broad,
7 unduly burdensome, vague and ambiguous and not reasonably
8 calculated to lead to the discovery of admissible evidence.
9 Subject to its objections, Union Carbide responds as follows:

10 See Union Carbide's response to interrogatory no. 33.

11 INTERROGATORY NO. 48:

12 Has THIS DEFENDANT required any individual(s) who
13 MARKETed its ASBESTOS-CONTAINING PRODUCT(S) to wear respirators
14 or face masks; if so, please state:

- 15 a) the job title(s), if known, of individual(s)
16 required to wear respirators or face masks;
17 b) the date(s) on which THIS DEFENDANT first required
18 the wearing of respirators or face masks;
19 c) the means by which the requirement to wear
20 respirators or face masks was communicated;
21 d) whether THIS DEFENDANT has any copies of DOCUMENTS
22 communicating such requirements;
23 e) the IDENTITY of the custodian of such DOCUMENTS.

24 RESPONSE TO INTERROGATORY NO. 48:

25 See general objections 4 and 5. Union Carbide also
26 objects to this interrogatory on the grounds that it is overly
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1 broad, unduly burdensome, vague and ambiguous and not
2 reasonably calculated to lead to the discovery of admissible
3 evidence. Subject to its objections, Union Carbide responds as
4 follows:

5 Union Carbide advised its customers, including
6 distributors, of the availability of respirators approved by
7 the Bureau of Mines, Department of Interior and the National
8 Institute of Occupational Safety and Health (NIOSH) (as
9 otherwise specified by the regulations of OSHA pursuant to 29
10 CFR 1910.1001). Such advice was contained in safety literature
11 made available and disseminated to Calidria customers. See
12 Union Carbide's response to interrogatory no. 33.

13 INTERROGATORY NO. 49:

14 Does or did THIS DEFENDANT utilize or employ any
15 CONTRACT UNIT? If so, please state:

- 16 a) the inclusive periods of time the CONTRACT UNIT(S)
17 was utilized or employed;
18 b) the business address and name of the CONTRACT
19 UNIT(S);
20 c) whether THIS DEFENDANT has any DOCUMENTS showing
21 the location(s) of the job site(s) where the
22 CONTRACT UNIT(S) worked, and if so, state the
23 IDENTITY of the custodian of such DOCUMENTS.

24 RESPONSE TO INTERROGATORY NO. 49:

25 See general objections 4 and 5. Union Carbide objects
26 to this interrogatory on the grounds that it is overly broad,
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1 unduly burdensome, vague and ambiguous. Union Carbide further
2 objects to this interrogatory on the grounds that it seeks
3 information that is not relevant to the subject matter of the
4 action or reasonably calculated to lead to the discovery of
5 admissible evidence. Subject to its objections, Union Carbide
6 responds as follows:

7 Union Carbide did not market thermal or frost
8 insulation and was never in the business of installing for hire.

9 INTERROGATORY NO. 50:

10 Has THIS DEFENDANT received any written communication
11 or other DOCUMENT, other than a claim for workers'
12 compensation, that any person was claiming injury as a result
13 of exposure to its RAW ASBESTOS FIBER and/or
14 ASBESTOS-CONTAINING PRODUCT(S); if so, please IDENTIFY the
15 first such written communication or DOCUMENT.

16 RESPONSE TO INTERROGATORY NO. 50:

17 See general objections 4 and 5. Union Carbide objects
18 to this interrogatory on the grounds that it is overly broad,
19 unduly burdensome, vague and ambiguous. Union Carbide further
20 objects to this interrogatory on the grounds that it seeks
21 information that is not relevant to the subject matter of the
22 action or reasonably calculated to lead to the discovery of
23 admissible evidence. Subject to its objections, Union Carbide
24 responds as follows:

25 Since 1979, Union Carbide has been named in law suits
26 making such allegations.

1 INTERROGATORY NO. 51:

2 Has any person filed a claim for asbestos-related
3 injury regarding THIS DEFENDANT against any workers'
4 compensation insurance carrier which provided coverage for THIS
5 DEFENDANT; if so, please state:

- 6 a) the date of such claim;
7 b) the name of claimant;
8 c) the caption;
9 d) the case number;
10 e) the court in which the claim was filed;
11 f) the IDENTITY of the custodian of such documents.

12 RESPONSE TO INTERROGATORY NO. 51:

13 See general objections 4 and 5. Union Carbide also
14 objects to this interrogatory on the grounds that no
15 asbestos-related claim has ever been filed by employees of
16 Union Carbide's Calidria mine and mill. One employee filed a
17 claim for an unknown disease. Dr. Duane Hade, of King City,
18 California, a non-Union Carbide physician who provided medical
19 service to employees of the King City mine and mill, is
20 familiar with this lack of asbestos related incidents.

21 INTERROGATORY NO. 52:

22 Has any person filed a workers' compensation claim for
23 asbestos-related injury against THIS DEFENDANT; if so, please
24 state:

- 25 a) the date of such claim;
26 b) the name of claimant;

- 1 c) the caption;
2 d) the case number;
3 e) the court in which the claims was filed;
4 f) the IDENTITY of the custodian of such documents.

5 RESPONSE TO INTERROGATORY NO. 52:

6 See Union Carbide's response to interrogatory no. 51.

7 INTERROGATORY NO. 53:

8 Does THIS DEFENDANT have insurance available to cover
9 judgment(s) entered against it in asbestos-related personal
10 injury lawsuits; if so, please state:

- 11 a) the name and principal place of business of any
12 insurance carrier who has issued such policy of
13 insurance;
14 b) the number and effective date of each policy;
15 c) the amounts(s) of coverage of each policy;
16 d) the applicable dates of coverage;
17 e) any reservation of rights contained in each such
18 policy;
19 f) the amount of coverage presently exhausted under
20 each such policy;
21 g) the amount of coverage presently available under
22 each such policy;
23 h) whether limits contained in such policy include
24 costs of defense.

25 RESPONSE TO INTERROGATORY NO. 53:

26 See general objections 4 and 5. Union Carbide objects
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1 to this interrogatory on the grounds that it is overly broad,
2 vague and ambiguous. Union Carbide further objects to this
3 interrogatory on the grounds that it seeks information that is
4 not relevant to the subject matter of the action or reasonably
5 calculated to lead to the discovery of admissible evidence.
6 Subject to its objections, and without making any admission
7 with respect to the plaintiff's claims, Union Carbide responds
8 as follows:

9 Union Carbide possesses sufficient insurance coverage
10 to enable it to cover the plaintiff's claims.

11 INTERROGATORY NO. 54:

12 Has THIS DEFENDANT owned or operated any petroleum
13 refining facilities; if so, please state:

- 14 a) whether any ASBESTOS-CONTAINING PRODUCT(S) WERE
15 MARKETed on the premises of such refining
16 facilities;
17 b) the location, including the name and address of
18 all such refining facilities;
19 c) the dates of operation of such refining facilities;
20 d) the types of ASBESTOS-CONTAINING PRODUCT(S)
21 MARKETed on such premises;
22 e) the names of the manufacturers of any
23 ASBESTOS-CONTANING PRODUCTS MARKETed on such
24 premises;
25 f) whether THIS DEFENDANT has documents identifying
26 such MARKETing;
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1 g) the IDENTITY of the custodian of such documents.

2 RESPONSE TO INTERROGATORY NO. 54:

3 See general objection 4. Calidria was mined and
4 milled at King City, California and never processed by Union
5 Carbide through any petroleum refining facility.

6 INTERROGATORY NO. 55:

7 Has THIS DEFENDANT held a controlling ownership
8 interest in any COMPANY which owned or operated petroleum
9 refining facilities; if so, for the period(s) of time during
10 which THIS DEFENDANT held such interest, please state:

- 11 a) whether any ASBESTOS-CONTAINING PRODUCTS were
12 MARKETed on the premises of such refining
13 facilities;
14 b) the location, including the name and address of
15 all such refining facilities;
16 c) the dates of operation of such refining facilities;
17 d) the types of ASBESTOS-CONTAINING PRODUCTS MARKETed
18 on such premises;
19 e) the names of the manufacturers of any
20 ASBESTOS-CONTAINING PRODUCTS MARKETed on such
21 premises;
22 f) whether THIS DEFENDANT has DOCUMENTS identifying
23 such MARKETing;
24 g) the IDENTITY of the custodian of such DOCUMENTS.

25 RESPONSE TO INTERROGATORY NO. 55:

26 See Union Carbide's response to interrogatory no. 54.

27 INTERROGATORY NO. 56:

28 No Interrogatory No. 56 was propounded by plaintiff.

1 INTERROGATORY NO. 57:

2 Has THIS DEFENDANT contracted with any COMPANY for the
3 MARKETing of ASBESTOS-CONTAINING PRODUCT(S) on any premises
4 owned or leased by THIS DEFENDANT; if so, please state:

5 a) the location, including name and address of such
6 premises;

7 b) the name and address of each such COMPANY;

8 c) the types of ASBESTOS-CONTAINING PRODUCTS;

9 d) the name of the manufacturers of such
10 ASBESTOS-CONTAINING PRODUCTS;

11 e) whether THIS DEFENDANT has DOCUMENTS of such
12 MARKETing;

13 f) the IDENTITY of the custodian of such DOCUMENTS.

14 RESPONSE TO INTERROGATORY NO. 57:

15 See general objection 4. Union Carbide also objects
16 to this interrogatory on the grounds that it is overly broad,
17 unduly burdensome, and not reasonably calculated to lead to the
18 discovery of admissible evidence. Subject to its objections,
19 Union Carbide responds as follows:

20 Distributors accounted for approximately 25% of all
21 Calidria sales. Union Carbide, however, no longer mines or
22 sells Calidria and thus no longer maintains Calidria
23 distributors. The following is a list of former Calidria
24 distributors which Union Carbide has been able to identify:

25 Presently Known Former Calidria Distributors (1963-1985)

- 26 1) Allied Resin Corporation
27 2) American Industrial Chemical Corporation
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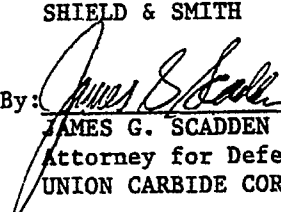
- 1 3) Bouffard Associates
2 4) A.T. Callas Company
3 5) D. & F. Distributing, Inc.
4 6) Harrisons & Crosfield (Canada)
5 7) Harrisons & Crosfield (Pacific)
6 8) Leverage Chemicals, Inc.
7 9) Technical Petroleum Company
8 10) Technical Products, Inc.
9 11) Montello, Inc.
10 12) Harwick Chemical Corp.
11 13) Platex, Inc.
12 14) Union Carbide International
13 15) Western Chemical & Manufacturing Company
14 16) Mc Kesson Chemicals, Inc.
15 17) Apperson Chemicals, Inc.
16 18) Amsco Division - Union Oil Company of Calif.
17 19) Hamblet & Hayes Co.
18 20) Marco Chemical Division - W. R. Grace & Company
19 21) Wonder State Industries
20 22) The Permilt Co., Inc.
21 23) Van Waters and Rogers
22 24) Lenape Chemicals, Inc.

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DATED: August 10, 1990

SHIELD & SMITH

By:


JAMES G. SCADDEN

Attorney for Defendant
UNION CARBIDE CORPORATION

1 (PROOF OF SERVICE BY MAIL -- 1013a, 2015.5 C.C.P.)

2 STATE OF CALIFORNIA)
3 COUNTY OF SAN FRANCISCO) ss.
4

5 I am employed in the aforesaid county; I am over the age of
6 eighteen years and not a party to the within entitled action; my
7 business address is: 580 California Street, Suite 1400,
8 San Francisco, California 94104.

9 On 8/13/90, I served the within:

10 UNION CARBIDE CORPORATION RESPONSES TO PLAINTIFFS' FIRST SET OF
11 INTERROGATORIES TO ALL DEFENDANTS (pursuant to General Order No.
12 30)

13 on the interested parties in said action,

14 ✓ by placing true copies thereof enclosed in a sealed envelope
15 addressed as stated on the attached mailing list:

16 SEE ATTACHED SOLANO COUNTY COMPLEX ASBESTOS COUNSEL SERVICE LIST

17 ✓ I caused such envelope to be deposited in the mail at San
18 Francisco, California. The envelope was mailed with postage
19 thereon fully prepaid.

20 Execute on 8/13/90 at San Francisco, California.

21 ✓ (State) I declare under penalty of perjury under the
22 laws of the State of California that the above is true and correct.

23 (Federal) I declare that I am employed in the office of
24 a member of the bar of this court at whose direction the service
25 was made.

26 Robert M. Aregger
27 ROBERTA M. AREGGER
28

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In Re: Complex Axbestos
Solano County Proof of Service 9/89