UNION CARBIDE

Calidria ASBESTOS

UNION CARBIDE CORPORATION · METALS DIVISION · P. O. BOX 579 · NIAGARA FALLS, N.Y. 14302 · TEL: 716-278-3376

PLAINTIFF'S EXHIBIT

UC-2877

November 23, 1981

RECEIVED

APR 1982

SULA BAYE

Dear "Calidria" Asbestos Customer:

As part of our continuing effort to emphasize the importance of keeping you, your employees and your customers advised of the best practices for using asbestos safely, we are enclosing herewith a copy of our Material Safety Data Sheet for "Calidria" Asbestos, dated September 1, 1976. Additional copies are available from this office upon request.

In addition, we are enclosing a copy of the current OSHA Standard on asbestos and copies of two pamphlets published by the Asbestos Information Association/ North America (AIA/NA) as follows: "What You Should Know About Asbestos and Health" and "Recommended Practices for Handling Asbestos Fiber." Also enclosed is a listing of other published material available from AIA/NA. Copies of AIA/NA material may be obtained directly from AIA/NA.

Please advise each of your employees who handles our "Calidria" asbestos that you have such safety data sheets available for reference and deliver to them the foregoing pamphlets for their information and protection. If you do not receive sufficient pamphlets so that each employee handling "Calidria" asbestos will receive one copy of each pamphlet, we will be happy to furnish you with additional copies.

We are also concerned that your customers and ultimately their employees be kept informed by you of the best safety practices for using your products containing asbestos.

We would like to express our appreciation for your business. Please let me know if we can serve you better in any way.

Very truly yours,

T. P. Norris/dal

T. P. Norris
Manager, Market Development

TPN:dal
Enclosures

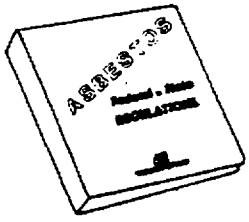
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UCC 025533

TO: Asbestos Information Association/North America
1745 Jefferson Davis Highway
Arlington, Virginia 22202
Phone (703) 979-1150

(Date)

Please forward the materials noted below. We understand that we will be billed for costs plus shipping charges.




**Handbook—"ASBESTOS—Federal & State Regulations"** in three-ring binder. $16.50 each.

Quantity _____



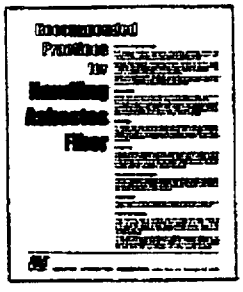

A monthly report of items of interest to the asbestos industry. $60.00 per year to non-AIA/NA members.

Quantity _____




**"What You Should Know About Asbestos and Health."** Employee information pamphlet. 5"x7" 25¢ each.

Quantity _____



**"Recommended Practices for Handling Asbestos Fiber."** Heavy coated stock poster, 11"x14" printed blue on white for employee information boards. 25¢ each.

Quantity _____

Also available in 3¾" × 9" pamphlet form suitable for mailing in #10 envelope. $.15 each

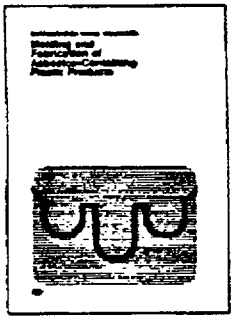
Quantity _____

**Booklets—"Friction Materials Work Practices Guide"—.10 each**

Quantity _____

"Recommended Work Procedures for Resilient Floor Coverings"
$.15 each

Quantity _____



**Booklets—Recommended Work Practices**

"Fabrication and Use of Asbestos Paper Products"
$1.35 each

Quantity _____

"Shop Fabrication of Asbestos Sheet Products"
$1.35 each

Quantity _____

"Molding and Fabrication of Asbestos Containing Plastic Products"
$1.35 each

Quantity _____

"Fabrication and Use of Asbestos Friction Materials"
$1.35 each

Quantity _____

"Use and Handling of Asbestos Textile Products"
$1.35 each

Quantity _____

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"Field Fabrication of Asbestos-Cement Sheet"
$1.00 each

Quantity _____

"Recommended Work Practices for A/C Pipe"
$.35 each

(REV. 5/81) UCC 025534

**Booklet—** "Working With Asbestos Cement"
40¢ each
Quantity _____

**Pamphlets—** "Asbestos in the Atmosphere—A hazard to health?"
20¢ each
Quantity _____

"Asbestos in Water—A hazard to health?"
20¢ each
Quantity _____

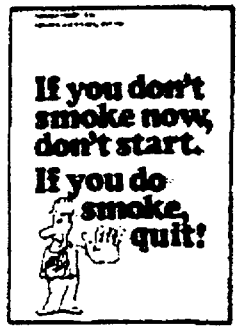
**Poster Series—** "Asbestos Health Hints for the Workplace." 15"x23" in various colors. Available at 40¢ each or complete series at $2.40.




Quantity _____




Quantity _____




Quantity _____




Quantity _____




Quantity _____




Quantity _____

Set of Six Posters _____
(Quantity)

**Films—** AIA/NA can make available, on a loan basis and at no charge, the edu-educational/training 16 mm films: "Working With Asbestos" (J-M, 20 min.); "Asbestos, The Indispensable Mineral" (J-M, 20 min.); "Living With Dust" (3M, 15 min.); and "Asbestos at Work" (AIC-UK, 20 min.).

**Slide Presentation—** "Asbestos: A Natural Product for Modern Needs" (35mm - 20 min.)

*Special Mailing Instructions:*

_____
Company

_____
Address

_____ _____ _____
City State Zip

_____
Signature

UCC 025535

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asbestosclaims.law/library/17737/3

UNION CARBIDE

# Material Safety Data

September 1, 1976

UNION CARBIDE CORPORATION • 4625 ROYAL AVENUE • NIAGARA FALLS, NEW YORK • 14302
TELEPHONE: (716) 278-3376

**PRODUCT:** Chrysotile Asbestos **CHEMICAL FORMULA:** $Mg_6(OH)_8Si_4O_{10}$

**TRADE NAMES:** "Calidria" Asbestos

## I. PHYSICAL DATA

**BOILING POINT AND MELTING POINT:** Not Pertinent

**SPECIFIC GRAVITY ($H_2O = 1$):** 2.45

**VOLATILE CONTENT:** Absorbed Water 1 – 4% By Weight. Structural Water Approximately 13% by Weight.

**APPEARANCE:** Pellets or Fine White Powder. No odor. Very Slight Solubility in Water.

## II. HAZARDOUS INGREDIENTS

Asbestos contains no hazardous ingredients. However, the material itself can be hazardous under certain conditions. *(See V below.)*

## III. FIRE AND EXPLOSION HAZARD DATA

**NON-COMBUSTIBLE MATERIAL:** No Fire or Explosion Hazard.

## IV. REACTIVITY DATA

**INERT MATERIAL:** No Decomposition or Polymerization Conditions.

## V. HEALTH HAZARD DATA

**PERMISSIBLE EXPOSURE TO AIRBORNE CONCENTRATION:**

The current Occupational Safety and Health Standard (CFR 29, 1910.1001) contains the following exposure limits:

"The 8-hour time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed 2 fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the membrane filter method at 400-450 X magnification (4 millimeter objective) phase contrast illumination. No employee shall be exposed at any time to airborne concentrations of asbestos fibers in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the method just noted."

**EFFECTS OF EXPOSURE: CAUTION:** Breathing asbestos may cause serious bodily harm.

**EMERGENCY AND FIRST AID PROCEDURES:** No acute toxicity. Use respirator if airborne asbestos fiber concentration exceeds OSHA limits.

## VI. SPILL OR LEAK PROCEDURES

***STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:*** Avoid inhalation of dust. Remove spilled material by vacuum cleaner or by water wash.

**WASTE DISPOSAL:**

Bags and waste and scrap materials should be disposed of in a manner which will avoid airborne concentrations of asbestos, such as the use of dust-tight trash bags or containers. Ensure that disposal complies with all applicable federal, state or local regulations.

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**Union Carbide Corporation assumes no responsibility and makes no warranty, expressed or implied, representation, promise, or statement as to *completeness, accuracy, or currency of any data provided.***



*Union Carbide trial exhibit UC-2877: T. P. Norris to Calidria Asbestos Customers Enclosing Material Safety Data Sh...* Published by AsbestosClaims.Law
ACL Doc 17737 · Page 4 of 5 asbestosclaims.law/library/17737/4

## VII. SPECIAL PROTECTION INFORMATION

**VENTILATION:**

Local exhaust for each operation is preferable. (See American National Standards Institute booklet, Z9.2 – 1971.) General area exhaust is acceptable. No special considerations.

| **PROTECTIVE GLOVES:** None | **EYE PROTECTION:** None |
|---|---|

**RESPIRATORY PROTECTION** (1)

The current Occupational Safety and Health Standard CFR 29, 1910.1001 contains the following requirements for respiratory protection.

| AIRBORNE CONCENTRATION(2) | | |
|---|---|---|
| 8-HOUR EXPOSURE (3) | CEILING CONCENTRATION | MINIMUM REQUIRED MASK TYPE(4) |
| 2 maximum | 10 maximum | Not required when allowable limits are not exceeded. |
| 20 maximum | 100 maximum | Reusable or single use air purifying respirator. |
| 200 maximum | 1000 maximum | Powered filter positive pressure. |
| Over 200 | — | Type C positive pressure, air supplied. |

(1) Allowed only during the time required for installation of engineering controls, when engineering controls are not technically feasible or adequate, and in emergencies. Current OSHA standards require that no employee shall be assigned to tasks requiring the use of respirators if, based upon his most recent examination an examining physician determines that the employee will be unable to function normally wearing a respirator, or that the safety or health of the employee or other employees will be impaired by the use of a respirator.

(2) Fibers per milliliter greater than 5 microns in length, as determined by the membrane filter method at 400-450X magnification (4 millimeter objective) phase contrast illumination.

(3) 8-Hour time-weighted average.

(4) Only masks certified by NIOSH as acceptable for the exposures encountered may be used.

**OTHER PROTECTIVE EQUIPMENT:**

If the ceiling concentration limit is exceeded, clothing providing whole body covering shall be supplied and its use required.

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## VIII. SPECIAL PRECAUTIONS

Every place of employment where asbestos fibers are released must be monitored to determine exposure levels. If the permissible time-weighted average and ceiling concentration limits are not exceeded, no special precautions are required except:

a) Bag damage and dusting should be minimized and dust inhalation avoided.

b) A comprehensive medical examination is required for any employee exposed to airborne fibers within 30 days of first such employment, annually thereafter and on termination of employment.

c) Personal work clothing can become contaminated with asbestos and may constitute an exposure hazard. Such clothing should be handled and laundered in a manner to avoid airborne concentrations of asbestos.

d) Substantial medical evidence indicates that smoking will increase the risk from asbestos exposure. Those working with asbestos should not smoke.

Where exposure limits may be exceeded, reference should be made to the regulation CFR 29, 1910.1001 for details on caution signs, monitoring, change rooms, protective clothing laundering and record keeping.



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