

FILE NAME: Johns-Manville (JMA)

DATE: 1972

DOC#: JMA390

DOCUMENT DESCRIPTION: Product Warning Labels; Plant Hygiene - Memos, Product Literature & Purchase Specifications

~~B/U 10/2~~
File
Page
filing

CONFIDENTIAL

Denver DHQ
Production
September 27, 1972

S. J. McDuff

cc: M. Harris
K. J. Whalen
E. M. Fenner ✓
W. B. Reitze
R. Cambell

LABELING OF HAZARDOUS MATERIAL

Subsequent to my letter of August 22 on the question of labeling, we have explored both what other Divisions are doing as well as what our OSHA coordinator Bill Reitze recommended.

1. It appears that each Division is deciding and providing independently of each other.
2. At the present time, there appears to be no company-wide policy regarding the specifics other than the fact that we will be complying with the label requirements.
3. The Architectural and Engineered Products Division labels their flat sheets in this manner:
 - a. If a unit of flat sheets goes to a fabricator, then a single label is placed on top of the unit.
 - b. If a unit of flat sheet goes to a distributor who may break the unit and sell it as individual sheets, then they place a loose flier about every two or three sheets within the unit.

Taking all of these items into consideration, we make the following recommendations:

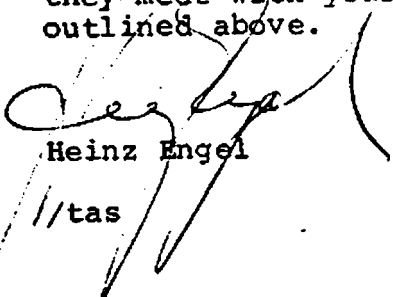
1. Any unit shipped to a fabricator (air duct or similar) is to be labeled by means of affixing one single label on the unit.
 2. Any randoms of air duct shipped to a job site (this generally applies to large diameter air duct) where we know for a fact that the pipe is to be cut, rebared or otherwise fabricated into fittings on the job site, should have each and every piece labeled.
- gms

3. The variety of products being made and fabricated by Corrosion-Proof would seem to demand that all sections shipped to them should be labeled.

We feel also that it is imperative that the labels we use in Johns-Manville, irrespective of Divisions, should be the same. Also, we believe that the printing of these labels should be done at the same neutral place (conceivably Denver). Otherwise I could envision nothing but difficulty and problems if each plant, such as Manville and Waukegan, go to a local printing shop requesting numerous labels saying, "This material contains asbestos and is dangerous to your health", or whatever the appropriate wording should be. Also, these labels should be printed in such a way so that they could be affixed to plastic scrap disposal bags as a warning as required by OSHA.

By copy of this letter to Bill Reitze I am requesting that he considers providing a design for a uniform label throughout the country as well as providing a single supply point for all plants.

I would appreciate if these suggestions be given consideration and discussed with the appropriate Market Manager and, should they meet with your approval, we shall institute the practices outlined above.



Heinz Engel

//tas

Pipe DHQ - Denver
August 22, 1972

*Pipe
Labeling*

S. J. McDuff

LABELING REQUIREMENTS UNDER NEW OSHA ASBESTOS REGULATION

The new OSHA Asbestos Regulations require that "Asbestos containing" products be labeled with a warning notice as printed in the Federal Register of June 7, 1972.

Both Johns Manville and OSHA recognizes a differentiation between products which contain Asbestos in a free form or "Non-Locked In" Asbestos products and those which contain Asbestos as an integral part of the material or "Locked-In" Asbestos products.

Transite, as a generative designation for a number of products, is a "Locked-In" Asbestos product. Therefore, no labeling is required.

Consequently, under normal usage, i.e., if the Transite pipe product is used in the form in which it is shipped, we are complying with the OSHA regulations by not labeling. There is no danger in its being handled, installed and used generating any toxic dust.

The potential exposure, as considered by OSHA, arises when Transite is either cut, machined or reprocessed by our customer.

The problem seems to fall into two categories:

1. Customers purchasing our pipe and making cuts or machining the pipe incidental to its installation. (For example, cutting to size of MOA's sewer pipe or others.) This work generally is performed at the installation site with Skilsaws, Pilot tools or other equipment normally available to the installer.
2. Customers purchasing our pipe with intent to fabricate, remachine on a production basis or use as a raw material for processing. Our Air Duct Fitting fabricator, Corrosion proof and certain fabricators of cooling towers are examples. Generally, this work is performed at a centralized location using production equipment.

Under the present regulations, we have a legal obligation to our customers to advise them of any toxic material (asbestos) generated through or from the use of our material.

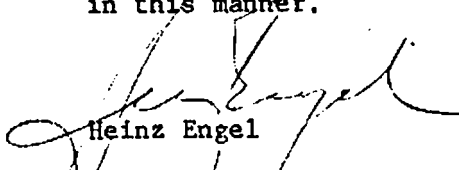
S. J. McDuff

At this time we, therefore, should examine our position in regards to the following:

1. On what products and to what extent should we consider labeling?
2. In what manner should the various customers be informed as to the toxicity of asbestos?

We have discussed the question of labeling and toxicity information with W. Reitze of Industrial Relations and E. M. Fenner of Environmental Control and they indicated that the first move is up to us. Also, the general feeling is that we should advise fabricators of the potential hazard without going into detail on either precautions or recommendations as to solutions.

In regards to the two questions above, we stand ready to get together with any of the Product and/or Market Managers if it is your decision to proceed in this manner.


Heinz Engel

cc: K. J. Whalen
R. W. Campbell
E. M. Fenner 
W. Reitze
File/chrono

Reinz Engel, 231
R. W. Campbell, 89
Er M. Fenner, Denver GHQ
Pipe Plant Managers

Date _____
Date _____
Plant Franklin

PIPE DIVISION
ENVIRONMENTAL CONTROL PROJECTS

Class: Noise

*felt Frank
Cope, #*

PROJECT	-----STATUS-----		
	July	August	September
Foremost Grinder Sta. No. N 13 Over TLV Resp. D. French Est. Comp. 4/72	New style Mitts & Merrill grinder failed.	Another source for grinder being sought by W. LaBadie	Same
DeWalt Lumber Saw Sta. No. N 14 Over TLV Resp. D. Andrews Est. comp. 2/72	New completion date - 11-1-72	Same	Same
Bin Vibrators Sta. #N 1, 2, 5, 6 Over TLV Resp. G. Walker Est. comp. 5/72	Same	New system in operation. Eliminates all but station #2	
Fitting Saw Sta. No. N 15 Over TLV Resp. V. Norwood Est. comp. 3/72	Saw received. To be installed by October 15th	Same	Same

*Emf
10/4*

J. P. Whalen, 280
 Heinz Engel, 281
 R. W. Campbell, 89
 E. M. Fenner, Denver GHQ
 Pipe Plant Managers

Date 5-5-72
 Date 6-1-72
 Date 10-2-72
 Plant Franklin

PIPE DIVISION
 ENVIRONMENTAL CONTROL PROJECTS

Class: Noise

PROJECT	-----STATUS-----		
	April	May	June
Foremost Grinder Sta. No. N 13 Over TLV Resp. D. French Est. Comp. 4/72	Denison still testing and making design changes.	Same	Same
DeWalt Lumber Saw Sta. No. N 14 Over TLV Resp. D. Andrews Est. comp. 2/72	Same	Precut lumber being analyzed. New completion date now 7-1.	Same
Bin Vibrators Sta. #N 1, 2, 5, 6 Over TLV Resp. J. Walker Est. comp. 5/72	New silos now scheduled for completion on July 1st.	Construction now in progress.	Same
Fitting Saw Sta. No. N 15 Over TLV Resp. V. Norwood Est. comp. 3/72	Same	Saw ordered. New completion date 7-1-72.	Same

6581
CONFIDENTIAL

GINQ
March 12, 1969

P. W. Matthews

Asbestos Paper and Millboard Labeling

Inhalation of excessive concentrations of asbestos dust over a long period of time can result in pulmonary injury.

Every effort should, therefore, be made to protect people from this risk.

It is my opinion that Millboard could present a problem in conjunction with handling, cutting and fabricating. This opinion is based on observation of our J-M gasket operations. I recommend consideration for a caution label on Millboard.

Asbestos Paper does not present the same problem as Millboard. The fibre is bonded into the paper and does not appear to become airborne. The only dust generated from use of paper that I have observed in J-M is during the slitting operation. This has not been extensive. I do not recommend consideration for a caution label on Asbestos Paper at this time.

Labeling is a combined responsibility between Industrial Relations, Environmental Control, and Legal. By copy of this letter I am requesting E. M. Fenner and H. M. Bell to provide you with their opinions.

If it is agreed that either of these products should be labeled, we will be glad to provide assistance in conjunction with the wording. Also, we wish to review the final version before making labeling effective.

C. L. SUECKLER

CLS:mw

cc: M. W. Burlison
H. M. Bell
E. M. Fenner - Finnerne

JM(ct) Ex 66-A forul
2MB 3/21/79

COPY FORM

INITIALS

DATE

BOX NUMBER

SEGMENT NO.

REQUESTING PARTY

2662

~~Labeling~~ Costleman

NOTES

*
transite pipe, 1980
patching compound, 1974
magnesia 85%, 1965
insulating cement, 1965

Jolins-Manville

Notice

PIPE DIVISION

JULY 28, 1980

TO: ALL DISTRICT MANAGERS
 ALL ASSISTANT DISTRICT MANAGERS
 ALL SALES REPRESENTATIVES
 ALL FIELD SERVICE SPECIALISTS
 ALL HQ PERSONNEL

Effective: Immediately

FROM: R. G. KINCHUL, J. CIANCIA - 3-06

SUBJECT: CAUTION LABEL FOR TRANSITE PIPE

CAUTION

Do not use power saws to cut this pipe. Breaching is prohibited by improper work practices may cause serious injury. When cutting, machine, or tapping, refer to the recommended work practice guide furnished to your employer.

AVISO

No use herramientas automáticas para cortar tubería. Inspeccionar el procedimiento por escrito e instrucciones automáticas pueden tener consecuencias graves a la salud. Consulte la información suministrada por el supervisor antes de cortar, torner o roscar el material.

Per my Notice of May 22, 1980, the Pipe Division will begin placing the above revised label on all TRANSITE pipe products (CC9510-9660) beginning in August. While we are not required by law to do so, we believe it is in the best interest of all parties concerned that we continue to caution the installers on use of power saws on TRANSITE pipe. We believe the label will be a good complement to and a reminder of our booklets, seminars and audio-visual programs on proper work practices.

One label will be applied to each length, including shorts, of pressure pipe and 8 in. and larger sewer pipe. On other products, at least every fifth piece of pipe will be labeled. Fittings and couplings will not be labeled since they are not cut in the field. Existing units of pipe in inventory will be labeled at the time of shipment.

Our domestic competition is labeling with a message similar in intent to ours.

P R I D E

PRODUCTIVITY

RECEIVED

EXCELLENCE

AUG 10 1981^{ATIVE}

DEPENDABILITY

RESULTS

QA

TO: R. R. Colwell, 3-11 DATE: August 10, 1981
 FROM: W. Plies, 3-11 *WMP*
 COPIES: R. J. Rushforth, 3-11
 SUBJECT: ASBESTOS CAUTION LABELS

The following products contain asbestos, but do not receive an asbestos caution label.

Product	Plant*
5-1/2# Asbestos Paper for Atlas Bros. Co.	KP
Unsaturated Asbestos Transshield Felt	KP
Asbestos Millboard	KP, W
Asbestos Paper for H.H. Roberson	KP
All Roofing Commodities	KP
15# Asbestos Finishing Felt	KP
Centurian Asbestos Base Felt	KP
Transshield - Perforated or Unperforated	KP
Asbestosgard Felt	KP
Transshield - Tar & Asphalt Saturated	KP
Duxseal	ASB
Uniseal	ASB
Molded Packing Cups	M
Unepac - Standard & Deep Base	M
Cunepac	M
Mist, Clipper Oil Seal	M
Thermocore Coil Packing	M



John-Manville Sales Corporation Ken-Caryl Ranch P.O. Box 5108 Denver, Colorado 80217

R. R. Colwell
August 10, 1981
Page 2

<u>Product</u>	<u>Plant*</u>
Braided Coil Packing	M
Interlocked Packing	M
Universal Packing	M
Chempac Packing	M
Fabric Packing	M
Twisted Rod Packing	M
Die Formed Packing Rings	M
Heli-Wrap Firesleeve	M
Flexible Metallic Rod Packing	M
Flexible Metallic Rod Packing (Twisted Metallic Foil)	M
Molded Groove Packing	M
Defibrator Packing	M
Fibrous Adhesive	W
Compressed Asbestos Sheet Packing	M, W
Firewall Sheet	M
Woven Asbestos Sheet Packing	M
Style 91, Asbestos Teflon Short Packing	M
Style 4425 Cloth	M
Expansion Joints	M
Commercial Grade Asbestos Paper	W
Commerical Grade Asbestos Rollboard	W
Compressed Asbestos Lining Materials	W
1136 Molded Lining, Automotive #3350, Industrial 200, 202	W
725 Stock	W
1104 Backing Stock	W
1105 Molded Lining, Automotive 3100, Industrial 240, 242	W
1186 Molded Lining, Automotive 3325, 3375 Industrial 230, 232	W

KEY*

KP - Kingsey Falls ASB - Asbestos
M - Manville W - Waukegan

WP/Los



Johns-Manville

Internal Correspondence

L. R. R. Colwell 3-11

Date February 2, 1982

From J. J. Attridge

Copies See Below

Subject LABELS-CARTONS-PACKAGING MATERIALS

A meeting was held this date with the copyholders in attendance to explore how greater control might be exercised over the visual appearance, accuracy of data, reduction of cost and obsolescence and timeliness of the labels and other packaging/identifying materials we use on our products. Since we are in the midst of wholesale changes resulting from the reorganization, this meeting was timely. Each person in the room had an interest in, or responsibility for, at least one aspect of the situation -- purchasing, graphics, HS&E compliance, logistics etc.

During the discussion it became evident that, due to past procedures, division to division variations, central purchasing vs. local purchasing for some items and some plants, the vast number of market managers involved (trained and untrained) etc. -- there is no one single repository or library of labels, wraps, cartons, etc. in Manville (including Johns-Manville). If Legal, HS&E, Purchasing, Design or anyone else wants to see what a current label looks like for X product at X plant, a call must be made to that plant to have it sent in. It is a hit and miss proposition -- mostly miss!

Since it is Quality Assurance's responsibility, as I understand it, to review and approve all sales literature as it relates to claims for product characteristics and performance -- does this responsibility not flop over to the labels, cartons, wraps, etc.? Does Q.A. not have responsibility for specifications and standards of quality for finished products as well as for packaging and labeling of products? If this is true, would it not make sense for Q.A. to set up a repository or library of labels -- and a procedure whereby, as each label is revised and reprinted, a sample of the label be required to be sent either from the vendor or from the person purchasing the label to the central library?

Please give this some thought and consideration and I think we would all benefit from a discussion of the idea.

cc M. G. Sivetts 2-27
A. F. Petrone 2-27
C. D'Agata 2-03

R. Alleman 2-04
R. S. Palmer 2-03
J. P. Leinewebber 1-06
W. W. Hanold 1-07

Liquid for Patching Compound

Caution:

Not for use in household area.

Contact may cause eye or skin irritation.

Avoid contact with eyes and prolonged contact with skin.

In case of contact, flush eyes with plenty of water for at least 15 minutes and get prompt medical attention; wash skin thoroughly with soap and water.

Keep out of reach of children.

 Johns-Manville

LA 4382 Printed in USA

Dry Mix for Patching Compound

Caution:

This product contains asbestos fiber.

Avoid breathing the dust. Inhalation of asbestos in excessive quantities over long periods of time may be harmful.

If dust is created when this product is handled, use proper protection.

If proper dust control cannot be provided, respirators approved by the U.S. Bureau of Mines for protection against pneumoconiosis-producing dusts should be worn.

 Johns-Manville

LA 4381 Printed in USA

11/74



Memo

From: R. J. RUSHFORTH
To: E. M. FENNER
Location: 1-06
Date: 12/2/77
Subject: 85% MAGNESIA.

Earliest Date 1902
Manufactured (Verified)

Date Discontinued 1970

Date Labelled 1965 (Asbestos)

Amosite - 7%
Chrysotile - 3%

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER

AVOID BREATHING THE DUST. INHALATION OF ASBESTOS IN EXCESSIVE QUANTITIES OVER LONG PERIODS OF TIME MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS HANDLED, USE PROPER PROTECTION.

IF PROPER DUST CONTROL CANNOT BE PROVIDED, RESPIRATORS APPROVED BY THE U.S. BUREAU OF MINES FOR PROTECTION AGAINST PNEUMOCONIOSIS-PRODUCING DUSTS SHOULD BE WORN.



1-406

PRINTED IN U.S.A.

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER

AVOID BREATHING THE DUST. INHALATION OF ASBESTOS IN EXCESSIVE QUANTITIES OVER LONG PERIODS OF TIME MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS HANDLED, USE PROPER PROTECTION.

IF PROPER DUST CONTROL CANNOT BE PROVIDED, RESPIRATORS APPROVED BY THE U.S. BUREAU OF MINES FOR PROTECTION AGAINST PNEUMOCONIOSIS-PRODUCING DUSTS SHOULD BE WORN.



1-406

PRINTED IN U.S.A.

*WD -
HARMFUL DUST.*

October 20, 1969

SUGGESTED WARNING LABELS FOR INDUSTRIAL INSULATIONS DIVISION PRODUCTS

Label "A" - Products Containing Asbestos Fiber

CAUTION

This product contains asbestos fiber.

AVOID BREATHING THE DUST.
Inhalation of asbestos in excessive quantities over long periods of time may be harmful.

If dust is created when this product is handled, use proper protection.

If ~~adequate~~ *proper* dust control ~~equipment~~ cannot be provided, respirators approved by the U.S. Bureau of Mines for protection against pneumoconiosis producing dust should be worn.

Label "B" - Products Containing Free Crystalline Silica

CAUTION

This product contains free crystalline silica.

AVOID BREATHING THE DUST.
Inhalation of silica dust in excessive quantities over long periods of time may be harmful.

If dust is created when this product is handled, use proper protection.

If ~~adequate~~ *proper* dust control ~~equipment~~ cannot be provided, respirators approved by the U.S. Bureau of Mines for protection against pneumoconiosis producing dust should be worn.

Label "C" - Products Containing Asbestos Fiber and Free Crystalline Silica

CAUTION

This product contains asbestos fiber and free crystalline silica.

AVOID BREATHING THE DUST.
Inhalation of these materials in excessive quantities over long periods of time may be harmful.

If dust is created when these products are handled, use proper protection.

If ~~adequate~~ *proper* dust control ~~equipment~~ cannot be provided, respirators approved by the U.S. Bureau of Mines for protection against pneumoconiosis producing dust should be worn.

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	3 of 3
PURCHASE SPECIFICATION	XX-0027-8	ISSUED DATE	11/1/65
MATERIAL	PAPER BAGS FOR INSULATING CEMENT	CANCELS	XX-0027-7
			1

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

CAUTIONARY PRINTING DETAILS
(EXACT SIZE SHOWN)

CHRYSOTILE

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER.
 INHALATION OF ASBESTOS IN EXCESSIVE
 QUANTITIES OVER LONG PERIODS OF TIME
 MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS
 HANDLED, AVOID BREATHING THE DUST.

IF ADEQUATE VENTILATION CONTROL IS NOT
 POSSIBLE, WEAR RESPIRATORS APPROVED
 BY THE U.S. BUREAU OF MINES FOR PNEU-
 MOCONIOSIS-PRODUCING DUSTS.

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	8 of 8
PURCHASE SPECIFICATION	IL-9027-8	ISSUED DATE	11/4/65
MATERIAL:	PAPER SACKS FOR INSULATING CEMENT	CANCELS	IL-9027-7
			V

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

CAUTIONARY PRINTING DETAILS
(EXACT SIZE SHOWN)

CHRYSOTILE

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER.
 INHALATION OF ASBESTOS IN EXCESSIVE
 QUANTITIES OVER LONG PERIODS OF TIME
 MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS
 HANDLED, AVOID BREATHING THE DUST.

IF ADEQUATE VENTILATION CONTROL IS NOT
 POSSIBLE, WEAR RESPIRATORS APPROVED
 BY THE U.S. BUREAU OF MINES FOR PNEU-
 MOCONIOSIS-PRODUCING DUSTS.

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	1 of 8
PURCHASE SPECIFICATION	IL-9027-8	ISSUED DATE	11/4/65
MATERIAL:	PAPER SACKS FOR INSULATING CEMENT	CANCELS	IL-9027-7
			W

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

1. General Description:

Sewn, gusseted, valve shipping sack with tuck-in sleeve.

2. Type of Paper:

No. 1 Sack Kraft meeting Class A requirements of Federal Specification UU-8-48; or latest revision and amendment in effect.

3. Construction:

All paper layers to be extensible Kraft. All bags to be constructed with flat tape, cotton thread, paper cord, with 6" upper right hand valve and 6" tuck in sleeve.

Type	Weight	Face	Finished Sack Length	Gusset	Construction
#301	50#	20"	34"	5"	40, 40, 50
#302	50#	20"	34"	5"	40, 40, 50
#302	100#	25"	43"	5"	40, 40, 50, 60
#0352	50#	20"	34"	5"	40, 40, 50
#0352	100#	21"	43"	5"	40, 40, 50, 60
#304	100#	21"	43"	5"	40, 40, 50, 60
#400	80#	21"	43"	5"	40, 40, 50, 50

All dimensions $\pm 1/8"$

4. Bag Weight: (500 sheets)

Plus 5%, Minus 5%

5. Printing:

a. Front and Gusset

See pages 3 through 7 of this specification.

Content	Quantity	J-M Package Printing Layout
#301	50#	IN-59-8 - Page 3 of this specification
#302	50#	CI-18 - Page 4 of this specification
#302	100#	CI-21 - Page 4 of this specification
#0352	50#	CI-19 - Page 5 of this specification
#0352	100#	CI-22 - Page 5 of this specification
#304	100#	IN-88 - Page 6 of this specification
#400	80#	IN-89 - Page 7 of this specification

FORM 100-10-1-64

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	2 of 8
PURCHASE SPECIFICATION	IL-9027-8	ISSUED DATE	11/4/65
MATERIAL:	PAPER SACKS FOR INSULATING CEMENT	CANCELS	IL-9027-7
			W

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

b. Back

1) CAUTION PRINTING

Place caution printing in the center on the lower half of the back directly below the Manufacturing symbol (See page 8 for details).

2) Stencilling

Upper half of back of bag shall be clear in order that the stencil requirements for government orders can be printed in this area.

X - Denotes Change

FORM 10-64
 DIV. 10 U.S.A.

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	1 of 3
PURCHASE SPECIFICATION	IL-9066-3	ISSUED DATE	11/4/65
MATERIAL:	PAPER BAG FOR SUPEREX CEMENT	CANCELS	IL-9066-2
			4

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

1. General Description:

Sewn, gusseted, valve shipping sack with tuck-in sleeve.

2. Type of Paper:

No. 1 Sack Kraft meeting Class A requirements of Federal Specification UU-248C or latest revision and amendment in effect.

3. Construction:

All paper layers to be Extensible Kraft. 2/40, 1/50; flat tape, cotton thread, paper cord, with 6" upper right hand valve, 6" tuck in sleeve.

4. Face Width:

23-1/2" $\pm$ 1/8"

5. Finished Sack Length:

40" $\pm$ 1/8"

6. Gusset Width:

5" $\pm$ 1/8"

7. Bag Weight: (500 Sheets)

Plus 5%, Minus 5%

8. Printing:

a. Front and Gusset

Printed one side, one color in accordance with J-M Printing Layout IM-58-B dated 10/27/61 and illustrated on page 2 of this specification.

b. Back

1) CAUTION PRINTING

Place caution printing in the center on the lower half of the back directly below the Manufacturing symbol (See page 3 for details).

2) Stencilling

Upper half of back of bag shall be clear in order that the stencil requirements for government orders can be printed in this area.

X - Denotes Change

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	2 of 3
PURCHASE SPECIFICATION	II-9066-3	ISSUED DATE	11/4/65
MATERIAL:	PAPER BAG FOR SUPEREX CEMENT	CANCELS	II-9066-2
			W

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

J-M PACKAGE PRINTING LAYOUT

Form No. IN-58-B
 Date: 10/27/61

CANCELLATION: This layout cancels Form IN-58-A, dated 1/9/59.
COLOR OF INK: Johns-Manville Red (IFL-ED-25573 or Equal).
NOTE TO VENDOR: Printing is to be centered on bag.

• Reissued to show Gusset printing.

(Die—18" x 22")

SUPEREX CEMENT



SUPEREX CEMENT

FORM IN-58-B
 10/27/61

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	3 of 3
PURCHASE SPECIFICATION	II-9066-3	ISSUED DATE	11/4/65
MATERIAL:	PAPER BAG FOR SUPEREX CEMENT	CANCELS	II-9066-2

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

CAUTIONARY PRINTING DETAILS
(EXACT SIZE SHOWN)

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER.
 INHALATION OF ASBESTOS IN EXCESSIVE
 QUANTITIES OVER LONG PERIODS OF TIME
 MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS
 HANDLED, AVOID BREATHING THE DUST.

IF ADEQUATE VENTILATION CONTROL IS NOT
 POSSIBLE, WEAR RESPIRATORS APPROVED
 BY THE U.S. BUREAU OF MINES FOR PNEU-
 MOCONIOSIS-PRODUCING DUSTS.

FORM 3012-2A1
PTD. IN U.S.A.

JOHNS-MANVILLE CORPORATION		SPECIFICATION NUMBER	
PURCHASE SPECIFICATION		II-9074-6	
MATERIAL: CATIONS FOR MAGNESIA AND SUPERK PIPE INSULATION		PAGE NO.	2 OF 3
		ISSUED DATE	3/12/65
		CANCELS	II-9074-5
			V

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE. IMPROVEMENTS ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

U-M PACKAGE PRINTING LAYOUT

DATE: 3/65

FORM NO. M-5H

DATE: 3/65

 85% MAGNESIA PIPE INSULATION  MG-3 II	CAUTION STAND ON END HANDLE WITH CARE	 85% MAGNESIA PIPE INSULATION  MG-3 II
--	--	---

CANCELLATION: This layout cancels Form M-5-C dated 10/64.
 COLOR OF INK: Johns-Manville Gray (IPI-ED-27531 or Equal).
 CAUTION PRINTING: See page 3 for details. NOTE THAT IT MUST BE LOCATED IN LOWER HALF OF CARTON.

* Relocated to relocate Cautionary Printing.

JOHNS-MANVILLE CORPORATION	SPECIFICATION NUMBER	PAGE NO.	3 of 3
PURCHASE SPECIFICATION	II-9074-6	ISSUED DATE	3/12/65
MATERIAL:		CANCELS	II-9074-5
CARTONS FOR FARNESIA AND SUPEREX PIPE INSULATION			

NO CHANGE IN MATERIAL MAY BE MADE BY THE VENDOR WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

CAUTIONARY PRINTING DETAILS
(EXACT SIZE Shown)

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER.
 INHALATION OF ASBESTOS IN EXCESSIVE
 QUANTITIES OVER LONG PERIODS OF TIME
 MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS
 HANDLED, AVOID BREATHING THE DUST.

IF ADEQUATE VENTILATION CONTROL IS NOT
 POSSIBLE, WEAR RESPIRATORS APPROVED
 BY THE U.S. BUREAU OF MINES FOR PNEU-
 MOCONIOSIS-PRODUCING DUSTS.

C O P Y F O R M

INITIALS

DATE

BOX NUMBER

2662

SEGMENT NO.

REQUESTING PARTY

Castlerose

N O T E S

no product list attached

THE ASBESTOS INFORMATION COMMITTEE

2 OLD BURLINGTON STREET, LONDON W1X 3LH

01-734 0001

To: Associate Members

25th June 1976

Dear Mr. Jones,

As you know from our recent meetings with you, discussions between the Asbestosis Research Council, Asbestos Information Committee, the Health and Safety Executive and the Department of Prices and Consumer Protection have led to an agreement on a labelling scheme for certain asbestos products.

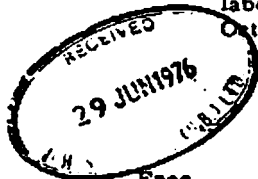
The AIC is committed to full support for these proposals. I am not exaggerating when I say that the asbestos industry is, in the eyes of Government, on trial in respect of the scheme's success.

The design details and methods of use of the label itself are given in the enclosed manual.

I enclose a list of products to which the labelling scheme will apply.

I should be grateful if you would take the following action.

1. Let Mr. W. P. Howard know at the above address how many more copies of the design manual you will require.
2. If you have subsidiaries, write them a letter along the lines of Appendix B.
3. Write to those of your customers who themselves supply products which fall within the attached list, along the lines of the attached letter (Appendix C).
4. Make arrangements for products manufactured after 1st October 1976 to be marked or labelled in the most appropriate way.
5. It would be in the spirit of the Scheme for you also to label any products in stock and sold on or before 1st October 1976, should that not present great difficulty.



Encs.

Yours sincerely,
H.D.S. Hardie

H. D. S. HARDIE
Chairman

A/H Short Subject
Povine, Gus

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER

AVOID BREATHING THE DUST. INHALATION OF ASBESTOS IN EXCESSIVE QUANTITIES OVER LONG PERIODS OF TIME MAY BE HARMFUL

IF DUST IS CREATED WHEN THIS PRODUCT IS HANDLED USE PROPER PROTECTION

IF PROPER DUST CONTROL CANNOT BE PROVIDED RESPIRATORS APPROVED BY THE U.S. BUREAU OF MINES FOR PROTECTION AGAINST PNEUMOCONIOSIS PRODUCING DUSTS SHOULD BE WORN



L-4885

PRINTED IN U.S.A.

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER AND FREE CRYSTALLINE SILICA.

AVOID BREATHING THE DUST. INHALATION OF THESE MATERIALS IN EXCESSIVE QUANTITIES OVER LONG PERIODS OF TIME MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS HANDLED. USE PROPER PROTECTION.

IF PROPER DUST CONTROL CANNOT BE PROVIDED. RESPIRATORS APPROVED BY THE U.S. BUREAU OF MINES FOR PROTECTION AGAINST PNEUMOCONIOSIS PRODUCING DUSTS SHOULD BE WORN.



L-4956

PRINTED IN U.S.A.

**PRODUCED
JM - 83**

Handwritten scribbles

Memo

Date 9/10/64

To CLS

CC: Dr KLOS

OFFICE OF
GENERAL COUNSEL

JAN 9 1965

FILED			
IJP			
WPSB			

Handwritten initials

SUBJECT:

*This is the label we
were talking about - over the phone*

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER.
INHALATION OF ASBESTOS IN EXCESSIVE
QUANTITIES OVER LONG PERIODS OF TIME
MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS
HANDLED, AVOID BREATHING THE DUST.

IF ADEQUATE VENTILATION CONTROL IS NOT
POSSIBLE, WEAR RESPIRATORS APPROVED
BY THE U.S. BUREAU OF MINES FOR PNEU-
MOCONIOSIS-PRODUCING DUSTS.

Handwritten signatures and date 1968

PRIVILEGED
J-M 83

SIGNED

Handwritten signature

LOCATION

WHY FILE THIS!

14 MIGHTIO

From: R. RUSHFORTH

to: A. Pocius

Location: 3N-DEIVERSALES

Date: 1/12/82

Subject: ASBESTOS CAUTION LABEL
L-4102

EUREKA! I FOUND ONE.

Attached is a copy of label
L-4102 attached to a note
dated 9/10/64. It is for sure
a stick on label and not
a piece from a printed bag/ctn.
It is black on white.

The note at the right of label
(dated 1968) appears to be a
later addition and does not
appear to invalidate the date
of the label (1964).

PRODUCED
JM - 83

~~PRIVILEGED~~
~~JM 83~~

EXHIBIT A

PRODUCED
JAN 82

Dr. K. W. Smith - (3) -

INDUSTRIAL INSULATIONS DIVISION
PRODUCTS CONTAINING ASBESTOS

We have decided to label all the products which we sell, which for my responsibility are cements and molded insulations, that contain asbestos with a caution label.

I would like to have your comments, and those of the Legal Department also, on how the label should be worded.

My own idea is that it should be very brief, something to the effect that "this product contains asbestos and proper precautions should be taken to avoid excessive inhalation," or, "contains asbestos - harmful if inhaled."

I would like to discuss this with you. If you have any questions, I would like to start this program as soon as possible.

A. Pocius

A. POCIUS

AP/kg

cc: M. W. Burleson
I. J. Pedly
E. C. Lindstrom
File - W. W. Acher to note

00050
103

DHQ IND. DIV.

DEC 20 1963

QUALITY CONTROL DEPT.

Division Headquarters

December 20, 1963

Dr. E. W. Smith

INDUSTRIAL INSULATIONS DIVISION
PRODUCTS CONTAINING ASBESTOS

We have decided to label all the products which we sell, which for my responsibility are cements and molded insulations, that contain asbestos with a caution label.

I would like to have your comments, and those of the Legal Department also, on how the label should be worded.

My own idea is that it should be very brief, something to the effect that "this product contains asbestos and proper precautions should be taken to avoid excessive inhalation," or, "contains asbestos - harmful if inhaled."

I would like to discuss this with you. If you have any questions, I would like to start this program as soon as possible.

A. FOCUS

AP/kg

cc: M. W. Burleson
I. J. Pedly
E. C. Lindstrom
File - V. W. Acher to note

RECEIVED
DEC 20 1963

Division Headquarters
September 10, 1964

KMS	
CMS	

Dr. K.W. Smith - 2nd Floor

CAUTION LABELS
THERMOBESTOS BLOCK AND PIPE INSULATION
HIGH TEMPERATURE INSULATIONS

This will confirm your discussions with D.B. Wingerter today.

We are sending you the following for your information:

1. My letter of September 2 to R.K. Hoagland and E.A. Paddock covering information on caution labels to be used on Thermobestos.
2. My letter of September 2 to S. Lane, W.L. Ruff and J.O. Eby covering instructions on caution labels for High Temperature Insulations.
3. A sample of the caution label #L-4102.
4. Copy of wire sent to Messrs Hoagland, Paddock, Lane, Ruff and Eby cancelling instructions of my letter of September 2. This was done at your request.
5. Copies of Purchase Specs. II-9205-6 dated 9/10/64 and II-9075-15 dated 9/10/64 covering Thermobestos Block and Thermobestos Pipe respectively. These specifications show the location of the caution label to be included in the printing layout on cartons for Thermobestos Block and Pipe.

You have requested that we rescind our letters of September 2 due to problems raised at Manville Plant. Please be advised that we will do nothing further on caution labels until you advise the proper course of action on the following:

1. When labelling can begin.
2. If the label shown in the Purchase Specs. for Thermobestos Block and Pipe is satisfactory including color. These Specifications have not been issued.
3. Any other specific instructions that you have covering the product line shown in the attached letters.

E.C. LINDSTROM

1a

cc:

T.H. Eaton

A. Pocius

C.L. Scheckler - 2nd Floor

KWS	
CLS	9/17

September 14, 1964

E. C. Lindstrom

Caution Labels

Unfortunately, there seems to have been some misunderstanding concerning the caution label. At the last meeting which I attended on this subject, it was agreed that a caution label would be incorporated in the printing of all new cartons for Thermobestos products. Nothing was to be done until the present supply of cartons was exhausted and new ones were being ordered. Unfortunately, there seems to be some lack of communication or understanding and the gummed label was devised. As you know, this created a small furor at Manville and could have had very serious labor relations and workmen's compensation consequences.

I would recommend that our original agreement be followed. We should incorporate the caution label in the new printing only when additional cartons are ordered. It is understood that at some time in the near future shipments may be made of cartons having no label and others with the label incorporated. This should create no problem.

As far as other asbestos-containing products are concerned I would recommend that we should have another meeting to discuss each of these products. We should evaluate whether or not a health hazard might exist for those using the product. Please let us know when we may be of help in such a meeting.

Kenneth W. Smith, M.D.

cc: T. H. Eaton
A. Poelins

Division Headquarters
October 15, 1964

K.H. Slater - Manville Plant
E.A. Paddock - Long Beach Plant
S. Lane - Waukegan Plant
W.L. Ruff - Pittsburg Plant
J.O. Eby - Jeffery Mines

CAUTION LABELS
HIGH TEMPERATURE INSULATIONS

On September 2, I sent you a letter covering a proposed program for placing caution labels on all Industrial Insulations Division products containing Asbestos in the High Temperature line. I rescinded this letter in a wire dated September 10 because there were changes to be made in the program.

The Industrial Insulations Division still intends to place the precautionary information on all products containing asbestos in the High Temperature line. A program to carry this out has been reviewed with Dr. K.W. Smith, C.L. Scheckler and A. Pocius. It was the agreement that the following program would be carried out:

1. The following precautionary information will be placed on the outside containers on the products containing Asbestos in the High Temperature line:

CAUTION

THIS PRODUCT CONTAINS ASBESTOS FIBER.

INHALATION OF ASBESTOS IN EXCESSIVE
QUANTITIES OVER LONG PERIODS OF TIME
MAY BE HARMFUL.

IF DUST IS CREATED WHEN THIS PRODUCT IS
HANDLED, AVOID BREATHING THE DUST.

IF ADEQUATE VENTILATION CONTROL IS NOT
POSSIBLE, WEAR RESPIRATORS APPROVED BY
THE U.S. BUREAU OF MINES FOR PNEUMOCO-
NIOSIS PRODUCING DUSTS.

2. The program will be to place the above information in the printing layouts as part of the purchase specifications for the cartons or bags for each of the Industrial Insulations products listed below. These purchase specs.

*C. E.
W. J. G. G. G.*

RECEIVED
OCT - 22

3/9/65 - POCINS SAY THAT DIFFERENCE
IN PITS THAN BAGS OK.

UPON N. W. GUSTIN

will be issued by the Industrial Insulations Division Quality Control Department and plants will purchase to the new spec. but continue to use up the inventory of cartons or bags. It is understood that there will be mixed shipments of containers with and without labels. There will be no stamping or parting-on of precautionary labels on any of the products by the plants.

3. The products and purchase specifications for the containers are as follows:

P.S. No.	Haukegen	Pittsburg	4336-10
RP. 9075-1		II. 9075	
II-9025-6	#500 Insulating Cmt.	#500 Insulating Cmt.	4336-10
II-9031 *	(For Export)		
II-9026-6	#450 Insulating Cmt.	#450 Insulating Cmt.	4336-8
II-9031 *	(For Export)		
II-9027-7	#301 Cement	#301 Cement	4336-1
II-9031 *	(For Export)		
II-9027-7	#302 Asbestos Cement	#302 Asbestos Cmt.	4336-2
II-9031 *	(For Export)		
II-9027-7	#0352 Asbestos Cmt.	#0352 Asbestos Cmt.	4336-6
II-9027-7	#304 Asbestos Cement		
II-9027-7	#400 Asbestos Cement	#400 Asbestos Cmt.	4336-7
II-9028-6	#319 Ref. Cement	#319 Ref. Cement	4312-104
II-9028-6	#678 Semi-Ref. Cmt.	#678 Semi-Ref. Cmt.	4312-105
II-9064-4	85% Magnesia Cmt.		
II-9066-2	Superex Cement		
II-9074-4	Magnesia & Superex P/I		
II-9204-5	Magnesia & Superex Block		
No P.S.	#352 Cement (Striked @) NAV. ONLY	#352 Cement	
II-9205-6			Ctns. For Thermobestos Blocks
II-9075-15			Ctns. For Thermobestos P/I

7/31 - Caution printing
or labels not wanted up per G. POCINS.

REDUCED

FM - 33

FPS 4336-1

Fibro for 1 - unprinted bag

Fid-Insul

Fil-Insul Type V unprinted

Fil-Insul Type V-10 unprinted

Waukegan and Jeffery Mines are requested to send us samples of the containers listed above and advise if the purchase specs. are correct. Pittsburg Plant has already sent in sample bags.

Manville and Long Beach need not send in these containers as the program is already in effect for Thermobestos Block and Pipe Insulation. Purchase Specifications II-9205-6 and II-9075-15 covering Thermobestos Block and Pipe Insulation respectively were issued on 9/10/64 with the new precautionary information shown on the printing layouts.

If you have any questions on the above, please advise.

E.C. LARSEN

1a

cc:

J.B. Jete	- DHQ
P.E. Dutcher	- 7th Floor
K.V. Lindell	- Asbestos Fiber Div.
T.H. Eaton	- DHQ
M.E. Burleson	- DHQ
A.B. Marchant	- 6th Floor
A. P. Rains	- DHQ
A.R. Gyrardi	- DHQ
W.H. Graham	- 6th Floor
Dr. K.W. Smith	- 2nd Floor
C.L. Scheckler	- 2nd Floor
R.W. Hennig	- Manville Plant
T.G. Fuller	- Long Beach Plant
C.H. Jensen	- Waukegan Plant
T. Ossowski	- Pittsburg Plant
M.C. Lindsey	- Jeffery Mines
F.B. Proctor	- 13th Floor

RECEIVED
JUL 1 1964

Division Headquarters
December 22, 1964

V.C. Lindsay - Asbestos, Quebec - Jeffery Mines

**CUTION LABELS
HIGH TEMPERATURE INSULATIONS
YOURS DEC. 10**

Please be advised that Mr. Pocius will accept placing the caution label information on the back of the #352 Cement bags.

I am enclosing two (2) copies of the labels exhibiting the size of the print to be used.

Kindly advise when you expect to begin showing this caution label on the bags.

E.C. LINDSTROM

Ja

cc:

J.O. May - Asbestos, Quebec & Jeffery Mines

A. Pocius - EMC

P.B. Proctor - CHQ

RECEIVED
34-12

D. B. Wingerter - DHQ

Labeling of Insulation Products

You have provided me with a list of products indicating that the Product Managers are considering caution labels. The products include Super Brick, C-22 Brick, Fine and Coarse Sil-O-Cel powders, C-3 Aggregate and Marinite 23, 36, 65, MMM.

The suggested label will not be suitable for all products. Each product must be evaluated as to content and formula and then an appropriate label designed.

Products containing Celite materials should be labeled only if the material is calcined or flux calcined. Natural diatomaceous earth products are not currently labeled.

Sil-O-Cel Super Brick, C-22 Brick and Sil-O-Cel C-3 Aggregate are all calcined products. I recommend the following labeling for these products:

CAUTION! THIS PRODUCT CONTAINS SILICA

1. AVOID BREATHING THE DUST WHEN HANDLING THIS PRODUCT.
2. INHALATION OF SILICA DUST MAY BE HARMFUL.
3. IF VENTILATION CONTROL IS NOT ADEQUATE, WEAR U.S. BUREAU OF MINES APPROVED RESPIRATORY EQUIPMENT FOR PNEUMOCONIOSIS PRODUCING DUSTS.

My records indicate that Sil-O-Cel Insulation Powder is a natural diatomaceous powder and would therefore require no label. Your letter indicates "Fine and Coarse Sil-O-Cel Powders". These products require further identification before a specific recommendation can be made.

Marinites 23, 36, 65, Molten Metal, contain chrysotile and amosite asbestos fibre along with natural diatomaceous earth, hydrated lime and clay. The label therefore should be as follows:

CAUTION! THIS PRODUCT CONTAINS ASBESTOS FIBRE.

1. AVOID BREATHING THE DUST WHEN HANDLING THIS PRODUCT.
2. INHALATION OF ASBESTOS IN EXCESSIVE QUANTITIES OVER A LONG PERIOD OF TIME MAY BE HARMFUL.
3. IF VENTILATION CONTROL IS NOT ADEQUATE, WEAR U.S. BUREAU OF MINES APPROVED RESPIRATORY EQUIPMENT FOR PNEUMOCONIOSIS PRODUCING DUSTS.

PRODUCED
JUN - 68

May 16, 1968

The Caution Statement should be located prominently on the container and be printed in legible type in contrast by typography, layout or color with other printed matter on the container. Size of the label and letter size depend upon the size of the container. The size of the label must be such that it can be seen and read without difficulty. I am enclosing copies of asbestos product bag labels, carton labels and Celite product labels for the purpose of indicating letter size only.

Our J-M procedure for approval of labeling includes review by the Environmental Control, Industrial Relations and Legal Departments. By copy of this letter I am requesting H. M. Jackson and H. M. Ball to advise you of their opinions concerning this matter.

C. L. Sheckler
C. L. Sheckler

CLS/ems

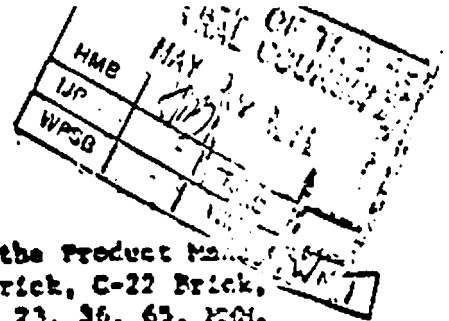
Enc. (3)

cc: J. B. Jobe - DHQ
M. W. Burlison - DHQ
A. Pocius - DHQ
W. J. Petersen - DHQ
J. A. Campbell - DHQ
H. M. Ball - GHQ
H. M. Jackson - DHQ
File
C

PRODUCED
JUN - 33

May 16, 1968

D. D. Wiegenter - DDG



Labeling of Insulation Products

You have provided me with a list of products indicating that the Product Manager are considering caution labels. The products include Super Brick, C-22 Brick, Fine and Coarse Sil-O-Cal powders, C-3 Aggregate and Marinite 23, 36, 65, Mol.

The suggested label will not be suitable for all products. Each product must be evaluated as to content and formula and then an appropriate label designed.

Products containing Celite materials should be labeled only if the material is calcined or flux calcined. Natural diatomaceous earth products are not currently labeled.

Sil-O-Cal Super Brick, C-22 Brick and Sil-O-Cal C-3 Aggregate are all calcined products. I recommend the following labeling for these products:

CAUTION: THIS PRODUCT CONTAINS SILICA

1. AVOID BREATHING THE DUST WHEN HANDLING THIS PRODUCT.
2. INHALATION OF SILICA DUST MAY BE HARMFUL.
3. IF VENTILATION CONTROL IS NOT ADEQUATE, WEAR U.S. BUREAU OF MINES APPROVED RESPIRATORY EQUIPMENT FOR PNEUMOCONIOSIS PRODUCING DUSTS.

My records indicate that Sil-O-Cal Insulation Powder is a natural diatomaceous powder and would therefore require no label. Your letter indicates "Fine and Coarse Sil-O-Cal Powders". These products require further identification before a specific recommendation can be made.

Marinite 23, 36, 65, Molten Metal, contain chrysotile and amosite asbestos fibre along with natural diatomaceous earth, hydrated lime and clay. The label therefore should be as follows:

CAUTION: THIS PRODUCT CONTAINS ASBESTOS FIBRE.

1. AVOID BREATHING THE DUST WHEN HANDLING THIS PRODUCT.
2. INHALATION OF ASBESTOS IN EXCESSIVE QUANTITIES OVER A LONG PERIOD OF TIME MAY BE HARMFUL.
3. IF VENTILATION CONTROL IS NOT ADEQUATE, WEAR U.S. BUREAU OF MINES APPROVED RESPIRATORY EQUIPMENT FOR PNEUMOCONIOSIS PRODUCING DUSTS.

[REDACTED SECTION]

x Also told Wiegenter to send WMO copy of final label wording before printing if he wanted to.

6/3/68

Told Wiegenter this is

OK per W.M. Deutsch.

He has copy of P.B. Proctor's 3/9/67

"Detailed Review Comments on Hazardous Info. Maximum Permissible Concentration of Various Substances" * R. Bernath

RECEIVED
MAY 22 1968

May 16, 1968

The Caution Statement should be located prominently on the container and be printed in legible type in contrast by typography, layout or color with other printed matter on the container. Size of the label and letter size depend upon the size of the container. The size of the label must be such that it can be seen and read without difficulty. I am enclosing copies of selected product bag labels, carton labels and Celite product labels for the purpose of indicating letter size only.

Our J-M procedure for approval of labeling includes review by the Environmental Control, Industrial Relations and Legal Departments. By copy of this letter I am requesting E. M. Jackson and E. M. Hall to advise you of their opinions concerning this matter.

C. L. Shackler

CLE/cw

Enc. (3)

cc: J. B. Jobe - DEQ
M. W. Burleson - DEQ
A. Focius - DEQ
W. J. Petersen - DEQ
J. A. Campbell - DEQ
E. M. Hall - DEQ
E. M. Jackson - DEQ
File
C

PRODUCED
4-11-83

→ FOR CARL —

CARL SEND

THIS TO PRODUCTION & QC & GROUP

PRODUCTION ENGINEERING DEPT.
IND. RESUL. DIV.

Feb 2/19

MAR 3 1969

Division Headquarters
February 18, 1969

A. Pocius

Marinite
Environmental Health

It is my understanding that we do not place any warning labels on Marinite, which contains a rather high percentage of asbestos fiber. Would you please look into this, as well as any other product we are manufacturing that could present a hazard to people.

I would like to know by March 15 what you have done to completely correct the situation.

M. W. Burleson

B/U 3/15

cc: 2/28/69

R. W. Dobson - Manville
D. B. Wingerter - Manville
J. F. Mell - Billerica

CONFIDENTIAL

Environmental Control Department
Research & Engineering Center
March 19, 1969

PRODUCTION ENGINEERING D.
IND. INSUL. DIV.

A. Pocius - DEQ

MAR 20 1969

Health Hazard Warning
MARINITE

A few weeks ago you and I discussed the necessity for a health hazard label on MARINITE products. Since then I have received a copy of a letter from P. F. Coggins to R. W. Dobson on the same subject.

I assume that Mr. Coggins' letter will initiate the usage of the warning label. However, it is probably advantageous to have the Environmental Control Department on record as recommending hazard warning labels on MARINITE products.


E. M. Jenner

EMJ/aa

cc: R. W. Dobson - Manville
P. F. Coggins - DEQ
E. M. Ball - DEQ
C. L. Sheckler - DEQ
File
C



PRODUCED
JAN 33

DIS VVING
7

480
April 22, 1969

A. Socinus

Labeling of Marinite Products
E. M. Finner's letter of 3/19/69

I do not have a file of information or correspondence in conjunction with a health hazard warning label on Marinite products.

The responsibility for recommending product labeling in relation to health hazards is tri-departmental including Legal, Industrial Relations, and Environmental Control.

Please forward a copy of Mr. Coggins' letter referred to in E.M.Finner's letter, a copy of the label wording and format, plus any additional pertinent information.

Is this label currently in use? Please advise the status.

E. L. Shekier

CL:sm

cc: R. W. Robson - Manville
P. F. Coggins
E. M. Ball
E. M. Finner - Research

PRODUCED
101 - 60

SEP 26 1972

DENVER GHQ
SEPTEMBER 26, 1972

D. WINGERTER - DENVER
A. JUNG - MANVILLE

NEW OSHA REGULATIONS
CAUTIONARY LABELS

This morning, I reviewed the new OSHA regulations with C. Guerin and agreed on the following action plans regarding cautionary labels:

I. The following items will be labeled with cautionary labels:

- 457-260
257-305
- A. Groove Packings Style 17, 790, 872, 216, 176, 177, 128, 129, and 3123. - 457-285
- 457-250
- B. All Plaited Ropes including Styles 857, 788, 869, 873, 566, 702, 787, 733, 580, and 581.
- 457-324
- C. All asbestos BESTO-TAK tapes.
- 457-335
- D. All plain (uncoated) asbestos tadpoles including Frigidaire Oven Door Seal CAP-1460 A and D.
- E. All plain (uncoated) asbestos CAP parts.

10/24 → II. Wingerter should advise plant that cautionary labels are to be applied on the above products. Manville Plant should proceed to purchase labels immediately. By copy of this letter to R. Rushforth, requesting that the Finished Product Specs on the above products be changed to note that cautionary labels need to be applied to each package before the product can be shipped to the customer.

PRODUCED
10 - 83

- III. District Managers should advise their salesmen of this change as soon as possible. The standard labels that will be used will read as follows, "Caution contains asbestos fibers. Avoid creating dust. Breathing asbestos dust may cause serious bodily harm."
- IV. Since many of the above items are sold to distributors, I am requesting that the distributor manager notify our distributors of this change in labeling procedures.

Hopefully, we can get the labels from Hibbert Printing within the next two weeks so that all of the above items shipped from the plant after October 15th will contain the cautionary labels on the packages.

E. J. Domanick

E. J. Domanick

/as

cc: J. J. Hayes - Denver	R. M. Billings - Denver..
S. Lane - Denver	M. J. Cowan - Denver
P. D. Morrell - Denver	C. G. Guerin - Manville
B. Yerry - Manville	D. Guy - Manville
R. Rushforth - Denver	W. Reitze - Denver
J. Polifko - Manville	A. Pocius - New York
R. J. Wignore - Philadelphia	V. C. Barnett - Cleveland
J. G. Williams - Milwaukee	E. W. DeJon - Houston
R. E. Eason - Atlanta	E. W. Barnekoff - St. Louis
W. J. Alfried - L.A./Carson	H. J. Roesch - Detroit



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Organization & Personnel Notice



A. POCIUS
8TH FLOOR
112

31A-2

June 30, 1965

Distributor Insulations Products Sales Dept.
Industrial Insulations Division

In order to more effectively promote the development, sales, and distribution of the products in the Industrial Insulations group, and emphasize products which involve metal refining and treatment, which have recently become so important, the following positions have been established:

Product Group Manager - Industrial Insulations, Coatings &
Jackets

Product Manager - High Temperature Insulation Specialties

We are pleased to announce the following appointments:

August (Gus) Pocius - to the new position of Product Group Manager - Industrial Insulations, Coatings & Jackets, effective July 1, 1965. In this capacity he will be responsible for all high temperature molded insulation, all Banroc insulations, Refractory Fiber, High Temperature Miscellaneous Insulations, all Insulating Jackets and Weatherproofing, Insulating Cements and Fillers, Coatings and Insulating Accessories.

Gus has a background that eminently qualified him for this assignment. He started with J-M in 1952 as District Engineer in the Boston Office and was promoted to salesman in Boston territory in 1956. In 1959 he was promoted to the position of Staff Manager - Molded Insulation, DHQ, in 1961 to Product Manager, High Temperature Insulations and in 1964 to his present position of Product Manager, Industrial Insulations, Coatings and Jackets.

J. A. (Joe) Campbell, Jr. - to the new position of Product Manager - High Temperature Specialties, effective August 1, 1965. In this capacity he will have responsibility for the following products: Superex Blocks, Refractory Fibers, Cera-Form Kits, all other Distributor Cera-Form Products, Ris-A-Sleeves, L. W. Blazecrete for Fireproofing, Core Plates and Pallite.

Joe came to J-M in 1952 as District Engineer in Pittsburgh, was promoted to his present position of salesman in 1957.

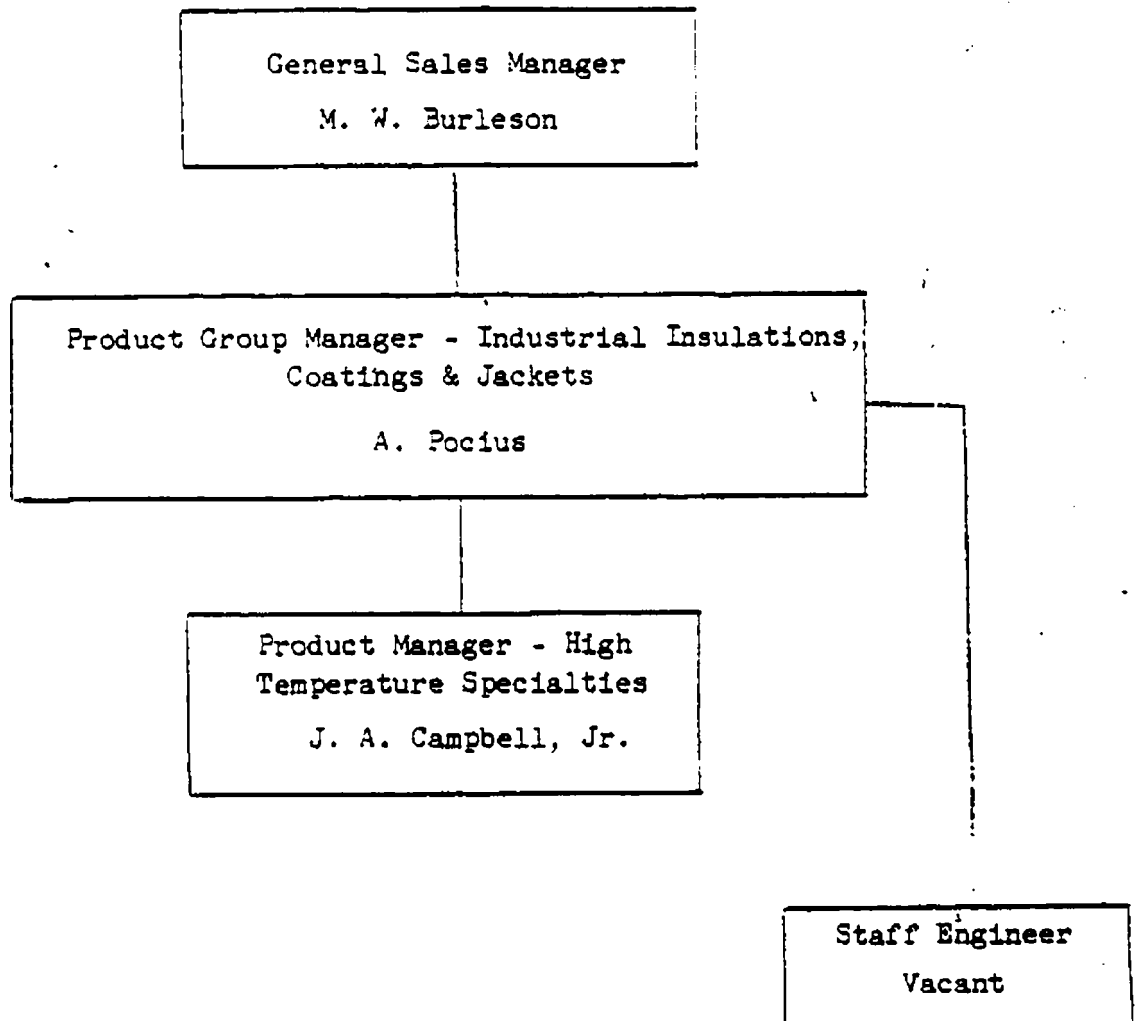
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cont.

We welcome Joe to DHQ and are pleased to have him assume this responsible position.

Both of these men have a good background of experience for their new assignments and we wish them well in their new endeavors.

The Industrial Insulations, Coatings & Jackets Group will be organized as follows:



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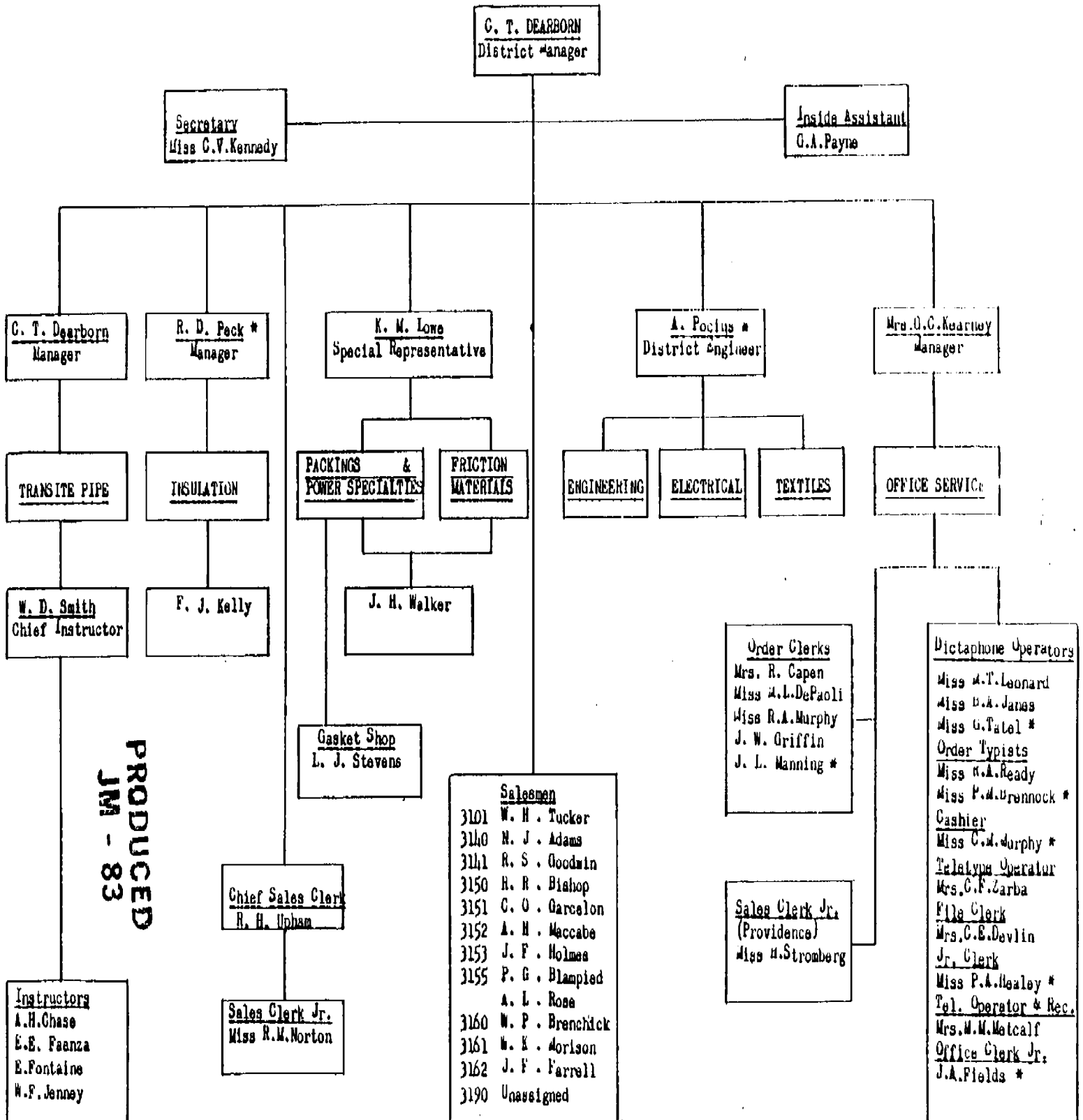
M. W. Burleson
General Sales Manager

TO: 761-A, 101,
103, 105 & 109

BOSTON DISTRICT ORGANIZATION CHART

INDUSTRIAL PRODUCTS DIVISION

MAY 18, 1953



Notice

INDUSTRIAL INSULATIONS DIVISION

R.J. RUSHFORTH
MANVILLE
111

July 1, 1970

Health Hazard Caution Warning Labels

Caution warnings are to be applied to certain packages and products that are sold by IID and that contain asbestos fiber and free crystalline silica. Caution warnings now in existence on some printed cartons and bags are to be revised. New caution labels are to be affixed to unprinted cartons and bags and in some instances to the product itself where health hazards may exist.

The new caution warnings have been developed and have Division, Environmental Control, and Industrial Relations and Legal Department approval.

At such time as the Corporate label revision program is put into effect in IID, the new caution warnings will be included in the revised printed product labels. Until this is done, the caution label must be a separate label.

The attached sheets show the layout of the labels being used and a listing of those products which will carry such warning labels.

All products will carry label L-4955 except those preceeded with an asterisk (*), which will use label L-4956.


M. W. Burleson
General Manager

TO: 761-A
109
1055
J. B. Jobe
H. B. Moreno
H. M. Ball

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Health Hazard Caution Warning Labels
I.I.D. Products

Billerica Plant

Imperial Marinite
Marinite 23
Marinite 36
Marinite 65
Veneered Marinite

Molten Metal Marinite - S.G. - REG
H. T. MMM - S.G. - REG
Pallite
Marimet 45
Reeferite

Waukegan Plant

Commercial Grade Asbestos Paper
Non-Burn Asbestos Paper
*MX-3808 Filler
Asbestos Welding Paper
*Superex P/I, Block & Cement
85% Magnesia P/I, Block & Cement
Millboard: 102, 106, 219, C, XXX, Type A, 106-B, 106-H
Cements: 301, 302, 352, 300, 450 and 500

Manville Plant

Min-K - 500
Min-K - 1301
Min-K - 2000
Min-Klad
Std. Flexible Min-K
H.T. Flexible Min-K
Flexible Min-K Tape
Niagrite
Commercial Asbestos Paper
Fibroid Asbestos Paper

Long Fiber Asbestos Paper
Doublex Asbestos Paper
Non-Burn Asbestos Paper
Ceilinite
Asbestos Roll Firefelt
Asbestos Welding Paper
Armature Asbestos Paper
Asbestos Firetard
Thermobestos P/I, Block & Elbows

Long Beach Plant

Thermobestos P/I, Blocks & Cement

Research

Thermomix Compounds

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Pittsburg Plant

Commercial Grade Asbestos Paper
Fibroid Asbestos Paper

Nashua Plant

Marine Veneer
Flexboard B
Dekeran
Perforated Marine Veneer

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HEALTH, SAFETY & ENVIRONMENT DEPARTMENT
DENVER GHQ
AUGUST 11, 1975

TO: ALL SR. OFFICERS & DIV. GENERAL MANAGERS (101)
ALL OPERATIONS MANAGERS (5111)
ALL PRODUCTION MANAGERS (512)
ALL PLANT AND MINE MANAGERS (52)
OFFICE SERVICE MANAGERS (54)
ALL EMPLOYEE RELATIONS MANAGERS (551)
ALL CONTRACT UNIT MANAGERS (5312)

FROM: W. B. REITZE - DENVER GHQ

SUBJECT: OSHA LETTER NO. 31
USE OF PROTECTIVE DEVICES
RESPIRATORY - HEARING

ALMOST DAILY, INSTANCES WHERE EMPLOYEES ARE NOT WEARING PROTECTIVE DEVICES IN THOSE AREAS WHERE NEEDED ARE BROUGHT TO OUR ATTENTION. THESE INCLUDE AREAS OVER TLV WHERE ASBESTOS, SILICA, LEAD AND SOLVENTS ARE USED AS WELL AS THOSE AREAS WHERE NOISE LEVELS EXCEED PUBLISHED LIMITS.

AS I AM SURE YOU ARE AWARE, AFTER EACH PLANT RECEIVES AN INDUSTRIAL HYGIENE SURVEY, A REPORT IS ISSUED WHICH LISTS ALL WORK STATIONS OVER TLV. PLANTS SHOULD USE THIS REPORT AS A POSITIVE GUIDE TO INDICATE WHEN PROTECTIVE DEVICES ARE NEEDED. IT IS RECOGNIZED THAT BECAUSE OF THE TIME LAPSE BETWEEN SURVEYS, PLANT MANAGEMENT ALSO MAY CHOOSE TO USE PROTECTIVE DEVICES FOR INTERIM PROTECTION.

BELOW ARE RECOMMENDED GUIDELINES INDICATING WHEN PROTECTIVE DEVICES ARE MANDATORY FOR ASBESTOS AND NOISE. THE TLV'S FOR OTHER SUBSTANCES ARE LISTED ON THE INDIVIDUAL PLANT INDUSTRIAL HYGIENE REPORTS.

ASBESTOS: MANUFACTURING, PLANTS, WAREHOUSES, ETC. WHEN INDUSTRIAL HYGIENE MEASUREMENTS INDICATE THE FIBER LEVELS ARE ABOVE 2 F/CC.

ASBESTOS MINES & MILLS (CANADA). WHEN THE INDUSTRIAL HYGIENE MEASUREMENTS ARE ABOVE 5 F/CC.

NOISE: HEARING PROTECTION IS TO BE WORN WHENEVER THE NOISE LEVEL IN A LOCATION EXCEEDS 90 DBA. IF IT CAN BE DETERMINED THAT AN EMPLOYEE IS EXPOSED TO INTERMITTENT HIGHER LEVELS, BUT ON A TIME-WEIGHTED AVERAGE HIS EXPOSURES FOR AN EIGHT-HOUR DAY DO NOT EXCEED 90 DBA, THEN INTERMITTENT PEAKS BEYOND 90 DBA ARE PERMISSIBLE WITHOUT HEARING PROTECTION. IN THESE CASES, THE INDIVIDUAL PLANT INDUSTRIAL HYGIENE REPORT SHOULD BE USED TO DETERMINE WHAT PROTECTION IS NECESSARY.

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OSHA LETTER NO.
AUGUST 11, 1975
PAGE 2

IT IS REALIZED THAT WHILE MANY TLV NUMBERS DERIVE THEIR EXISTENCE FROM EITHER U.S. FEDERAL LAW OR THE ACGIH STANDARDS, NEVERTHELESS WE HAVE ADOPTED THEM AS OUR CORPORATE STANDARDS, AND AS SUCH THEY ARE TO BE APPLIED TO ALL J-M LOCATIONS--WORLDWIDE.

CURRENTLY OUR ENFORCEMENT OF THE USE OF PROTECTIVE DEVICES HAS BEEN RATHER LAX. REGARDLESS OF WHETHER THERE ARE LAWS REQUIRING USAGE OF PROTECTIVE EQUIPMENT SUCH AS THERE ARE IN THE UNITED STATES OR NOT, IT IS STILL OUR DUTY (AND CORPORATE POLICY) TO PROTECT OUR EMPLOYEES. THIS IS NOT ALWAYS EASY, AND IT IS FOR THIS REASON THAT A. B. MARCHANT WROTE THE ATTACHED BULLETIN DATED JULY 6, 1972 WHICH OUTLINES DISCIPLINARY PROCEDURES TO BE USED IF NECESSARY.

AS MR. MARCHANT POINTS OUT, IT IS THE RESPONSIBILITY OF LOCAL MANAGEMENT TO ENFORCE THE USE OF PROTECTIVE DEVICES. THE LAST PARAGRAPH OF MR. MARCHANT'S MEMO READS AS FOLLOWS:

"SINCE SAFETY AND HEALTH ARE IMPORTANT FACETS OF EVERY MANAGEMENT POSITION, A SUPERVISOR WHO FAILS TO CONSISTENTLY ENFORCE THE REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT SHALL BE REGARDED AS HAVING FAILED TO MEET ONE OF HIS MAJOR JOB OBJECTIVES. HIS PERFORMANCE WILL BE JUDGED APPROPRIATELY."

SOME TIME PRIOR TO OCTOBER 1, A NEW LISTING OF APPROVED DEVICES WILL BE ISSUED.

W. B. Reitze
W. B. REITZE

ATTACHMENT.

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GHQ Denver
July 6, 1972

TO: All Production Managers
All Plant Group Managers
All Plant and Mine Managers
General Sales Manager - II Distributor Products
Office Service Managers

OCCUPATIONAL SAFETY AND HEALTH ACT

Although Johns-Manville has had for many years progressive and aggressive occupational safety and health programs, the enactment of the Federal Occupational Safety and Health Act has spelled out new requirements and responsibilities.

These have been communicated to you to date through the OSHA letters 1 through 8.

A number of the regulations have a direct bearing on our Labor Relations policies and practices. It is therefore important that you communicate fully with your local union management the impact of OSHA on your operations.

The following steps should be undertaken promptly:

1. Provide local union management with copies of the Federal Register pages of the Act and the recent revision of the Asbestos sections.
2. Discuss OSHA requirements, particularly those which involve employee relations, at your regular Management-Union meetings.
3. Review the attached policy statement re disciplinary procedure for failure to wear personal protective equipment. Under OSHA the employee has the legal responsibility to utilize the equipment required and furnished. On this basis, as well as the fact that the requirements are for the protection of the employee's health, you should expect and obtain full cooperation from the union.

I am sure you are keeping your supervisors fully informed of the OSHA regulations. Since Safety and Health are important facets of every management position, a supervisor who fails to consistently enforce the requirements for personal protective equipment shall be regarded as having failed to meet one of his major job objectives. His performance will be judged appropriately.

A. A. Marchant

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July 6, 1972

DISCIPLINE FOR FAILURE TO WEAR
PERSONAL PROTECTIVE EQUIPMENT

The OSHA rules and regulations for Asbestos published Wednesday, June 7, 1972 in the Federal Register, Volume 37, Number 110, explains under what conditions respirators and other personal protective equipment must be worn. Although J-M has required the proper use of respirators for many years, we now have a legal obligation to insure that they are worn properly.

Due to these legal requirements, it has been deemed necessary to establish a uniform discipline procedure in the event an employee refuses to wear or improperly wears a respirator and/or other personal protective equipment.

The local union should be informed of this disciplinary policy and the reasons for it.

A statement regarding the discipline for failure to properly use required personal protective equipment should be included in the posted Plant Rules.

Prior to starting a job which requires the use of personal protective equipment, each employee must be informed of the reason for wearing the item(s) of equipment and the fact that it is a job requirement.

If an employee is found not to be wearing the required personal protective equipment, the following discipline will be given:

1. First offense - written warning notice
2. Second offense - three days disciplinary lay-off
without pay
3. Third offense - discharge

In the event an employee is found to be improperly wearing a respirator, i.e., the filter is removed, etc., the discipline shall be exactly the same as above.

When a respirator is required, it must be worn properly and with a proper face seal. Those employees with moustaches and/or beards, must have the moustache and/or beard maintained or trimmed in such a manner as not to adversely effect a complete and proper seal of the respirator.

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To D. MARKUSSON

Date AUGUST 20, 1975

From W. B. REITZE

Copy

Subject OSHA LETTER NO. 31 - USE OF PROTECTIVE DEVICES
YOUR MEMO DATED AUGUST 18

DENNY, YOU RAISE AN INTERESTING QUESTION ABOUT THE DOUBLE STANDARD THAT WE MAINTAIN. THE APPARENT DOUBLE STANDARD IS NOT ONE OF 2 F/CC IN THE UNITED STATES AND 5 F/CC IN CANADA. RATHER, IT IS ONE OF 2 F/CC IN ALL MANUFACTURING PLANTS, WHETHER THEY ARE IN CANADA OR THE U.S., AND 5 F/CC IN MINING AND MILLING OPERATIONS.

FIRST OF ALL, WE SHOULD POINT OUT THAT WE CAN AND ARE MEETING THE 2 F/CC STANDARD IN ALL OF OUR MANUFACTURING OPERATIONS BOTH IN THE U.S. AND CANADA. OUR GOAL IS TO REDUCE MANUFACTURING PLANT LEVELS OF ASBESTOS FIBER TO BELOW 2 F/CC BY JULY 1, 1976. AT PRESENT WE HAVE VERY FEW STATIONS THAT ARE CURRENTLY ABOVE THIS LEVEL.

THERE ARE SEVERAL CONSIDERATIONS IN A MINING AND MILLING OPERATION THAT WE MUST BE AWARE OF. IT IS OUR OVERALL CORPORATE GOAL TO REDUCE FIBER LEVELS TO THE LOWEST POINT REGARDLESS OF REGULATORY BODIES. OUR FIBER DIVISION DOES NOT BELIEVE THAT THE TECHNOLOGY IS AVAILABLE FOR US TO REACH A BELOW 2 F/CC LEVEL IN THE IMMEDIATE FUTURE. THEY DO, HOWEVER, FEEL THAT THEY CAN ATTAIN THE 5 F/CC LEVEL WITHIN THE NEXT YEAR. AT THE PRESENT TIME I MUST AGREE WITH THE FIBER DIVISION THAT I DO NOT THINK TECHNOLOGY HAS PROGRESSED TO THE POINT THAT THEY CAN MEET THE 2 F/CC LEVEL IN ALL OF THE MINING AND MILLING OPERATIONS.

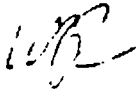
IT SHOULD ALSO BE POINTED OUT THAT THERE IS SOME DATA AVAILABLE (MCDONALD STUDY) WHICH WOULD GIVE US AN INDICATION THAT MINING AND MILLING OF ASBESTOS FIBER DOES NOT PRESENT THE SAME DEGREE OF HAZARD AS DOES THE USE OF ASBESTOS FIBER IN A MANUFACTURING SETTING.

IN THE EVENT THAT OTHER PEOPLE MIGHT INTERPRET THIS AS BEING A DOUBLE STANDARD BETWEEN THE U.S. AND CANADA RATHER THAN A DOUBLE STANDARD BETWEEN ASBESTOS MANUFACTURING FACILITIES AND ASBESTOS MINING AND MILLING, I HAVE BY USE OF THE ATTACHED MEMO COMMUNICATED WITH OUR FACILITIES IN

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D. MARKUSSON
AUGUST 20, 1975
PAGE 2

CANADA TO INFORM THEM THAT THE 5 F/CC LEVEL APPLIES TO MINING OPERATIONS ONLY. ALL MANUFACTURING PLANTS IN CANADA INCLUDING THE TEXTILE MANUFACTURING PLANT AT JEFFREY MUST ADHERE TO THE 2 F/CC REGULATION. I WOULD BE GLAD TO EXPLORE FURTHER THE WISDOM OF SUCH REASONING.



W. B. REITZE

ATTACHMENT



Johns-Manville

Internal Correspondence

To: OSHA DISTRIBUTION LIST

Date: Sept. 16, 1974

From: W. B. Reitze

Copies:

Subject: OSHA LETTER NO. **R**
USE OF BROOMS AND ASBESTOS-CONTAINING WASTE

As you may recall, a number of years ago our then President, Mr. Clint Burnett, issued a notice which in effect eliminated the use of brooms for sweeping where asbestos-containing waste was present.

Several years later, the Federal government, when they enacted the emergency asbestos standard, included a federal prohibition on the use of brooms for sweeping asbestos-containing waste.

In OSHA Letter No. 7, C. L. Sheckler continued the prohibition on the use of brooms in these circumstances. As we know, the Federal government in its final asbestos standard did strike that ban on the use of brooms from the new asbestos regulations.

It is our feeling that in spite of the relaxation of the Federal ban, this is one area where we at J-M are going to have to do better than the Federal regulations. As we also know, the use of brooms in the sweeping of asbestos-containing waste can and usually does produce potentially high dust counts. Some plants are very effectively using vacuum cleaners for this type of housekeeping. The larger chips such as present at a pipe lathe can be wet collected by use of a squeegee or grain scoop. These methods of collection may take a slightly longer amount of time, but they do eliminate the potential hazard.

The use of brooms to remove asbestos-containing waste should immediately be superseded by an alternate system (preferably vacuum) so as to eliminate this clearly controllable source of contamination.

W. B. Reitze

WBR/lc

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