

Vista Chemical Company

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WRD 0002049025

October 19, 1992

VIA FACSIMILE

org/reg

VISTA

To: Meredith Scheck, Vinyl Institute, (201) 890-7029

From: David Penney *DP*

Date: October 18, 1992

Subject: VCM occupational exposure levels

Attached is some information on VCM occupational exposure levels from one of our PVC resin plants.

OCCUPATIONAL EXPOSURE TO VINYL CHLORIDE
8-HOUR TIME WEIGHTED AVERAGES

PAGE 1 OF 4

Manufacturing Type(VCM, PVC resin, compound or extrusion)	Operation/Job category	1988	1989	1990	1991	1992 JAN THROUGH SEPT.
PVC resin	GENERAL MECHANIC	0.2 (144, 224)	0.2 (82, 234)	0.1 (6.8, 234)	0.1 (1.1, 239)	0.2 (6.9, 171)
	GENERAL HELPER	0.7 (105, 30)	0.2 (1.7, 29)	<0.1 (<0.1, 36)	0.2 (2.3, 36)	<0.1 (<0.1, 25)
	YARD OPERATOR	0.2 (2.0, 46)	0.4 (14.9, 52)	<0.1 (<0.1, 42)	0.1 (1.6, 44)	0.1 (0.9, 35)
	DRYER OPERATOR	<0.1 (<0.1, 93)	0.8 (30.0, 92)	<0.1 (<0.1, 93)	<0.1 (<0.1, 93)	<0.1 (<0.1, 69)
	VINYL REACTOR OPERATOR	0.2 (5.1, 90)	0.2 (7.4, 95)	<0.1 (<0.1, 88)	0.1 (1.7, 94)	0.2 (3.4, 69)
	VINYL CHIEF OPERATOR	0.2 (4.6, 47)	0.1 (1.4, 46)	<0.1 (<0.1, 49)	<0.1 (<0.1, 47)	0.2 (1.9, 33)
	VINYL SHIFT SUPERVISOR	0.1 (1.9, 50)	<0.1 (<0.1, 48)	0.3 (3.8, 45)	0.2 (7.1, 48)	<0.1 (<0.1, 35)
	INSTRUMENT TECHNICIAN	<0.1 (<0.1, 39)	<0.1 (<0.1, 32)	<0.1 (<0.1, 31)	0.3 (6.3, 25)	<0.1 (<0.1, 23)
	VINYL LEAD OPERATOR	<0.1 (<0.1, 141)	<0.1 (<0.1, 139)	<0.1 (<0.1, 134)	<0.1 (<0.1, 137)	<0.1 (<0.1, 106)
	COMPOUND OPERATIONS SUPERINTENDENT	—	<0.1 (<0.1, 1)	—	<0.1 (<0.1, 1)	—
	COMPOUND OPERATIONS SUPERVISOR	—	<0.1 (<0.1, 1)	—	—	—
	COMPOUND SHIFT SUPERVISOR	<0.1 (<0.1, 3)	<0.1 (<0.1, 1)	<0.1 (<0.1, 2)	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)
	PROCESS ENGINEER	—	<0.1 (<0.1, 1)	<0.1 (<0.1, 5)	<0.1 (<0.1, 2)	<0.1 (<0.1, 2)

Give average concentrations in ppm followed by maximum and # of samples in parentheses, if possible. Attach additional pages as necessary to discuss additional information such as indicate detection limits and handling of non-detectable measurements.

OCCUPATIONAL EXPOSURE TO VINYL CHLORIDE
8-HOUR TIME WEIGHTED AVERAGES

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Manufacturing Type (VCM, PVC resin, compound or extrusion)	Operation/Job category	1988	1989	1990	1991	1992 JAN THRU SEPT
PVC resin	DRAFTSMAN	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)	—	—	—
	MANUFACTURING CHEMIST	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)	—	—
	LAB LEAD TECHNICIAN	—	<0.1 (<0.1, 1)	—	—	<0.1 (<0.1, 1)
	CHIEF PLANT CHEMIST	—	<0.1 (<0.1, 1)	—	—	—
	LAB DEVELOPMENT TECHNICIAN	—	<0.1 (<0.1, 1)	—	—	—
	SAFETY DIRECTOR	—	<0.1 (<0.1, 2)	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)
	SAFETY SUPERVISOR	—	<0.1 (<0.1, 2)	<0.1 (<0.1, 1)	—	<0.1 (<0.1, 1)
	SAFETY INSPECTOR	<0.1 (<0.1, 1)	<0.1 (<0.1, 2)	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)	—
	LEAD WAREHOUSE WORKER	—	<0.1 (<0.1, 1)	—	—	—
	RECEIVING LEAD OPERATOR	—	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)	—	—
	STORE KEEPER	<0.1 (<0.1, 1)	<0.1 (<0.1, 1)	—	—	—
	VINYL OPERATIONS ENGINEER	<0.1 (<0.1, 5)	<0.1 (<0.1, 10)	<0.1 (<0.1, 9)	<0.1 (<0.1, 7)	<0.1 (<0.1, 8)
	VINYL OPERATIONS SUPERINTENDENT	<0.1 (<0.1, 9)	<0.1 (<0.1, 10)	<0.1 (<0.1, 8)	<0.1 (<0.1, 10)	<0.1 (<0.1, 9)

Give average concentrations in ppm followed by maximum and # of samples in parentheses, if possible. Attach additional pages as necessary to discuss additional information such as indicate detection limits and handling of non-detectable measurements.

OCCUPATIONAL EXPOSURE TO VINYL CHLORIDE
8-HOUR TIME WEIGHTED AVERAGES

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Manufacturing Type(VOM, PVC resin, compound or extrusion)	Operation/Job category	1988	1989	1990	1991	1992 JAN THROUGH SEPT
PVC resin	YARD SUPERVISOR	<0.1 (50.1, 10)	<0.1 (50.1, 5)	<0.1 (50.1, 9)	<0.1 (50.1, 11)	<0.1 (50.1, 7)
	VINYL OPERATIONS SUPERVISOR	<0.1 (50.1, 10)	<0.1 (50.1, 10)	<0.1 (50.1, 9)	<0.1 (50.1, 8)	<0.1 (50.1, 6)
	INSTRUMENT & ELECTRICAL SUPERVISOR	<0.1 (50.1, 11)	<0.1 (50.1, 9)	<0.1 (50.1, 9)	<0.1 (50.1, 9)	<0.1 (50.1, 7)
	MAINTENANCE SUPERINTENDENT	<0.1 (50.1, 10)	<0.1 (50.1, 5)	<0.1 (50.1, 7)	<0.1 (50.1, 7)	<0.1 (50.1, 5)
	MECHANICAL SUPERINTENDENT	<0.1 (50.1, 5)	<0.1 (50.1, 6)	<0.1 (50.1, 9)	<0.1 (50.1, 7)	<0.1 (50.1, 10)
	ELECTRICIAN	<0.1 (50.1, 22)	<0.1 (50.1, 34)	<0.1 (50.1, 26)	<0.1 (50.1, 22)	<0.1 (50.1, 16)
	PAINTER-INSULATOR-CARPENTER	<0.1 (50.1, 10)	<0.1 (50.1, 10)	<0.1 (50.1, 9)	<0.1 (50.1, 11)	<0.1 (50.1, 6)
	MAINTENANCE SUPERVISOR	<0.1 (50.1, 34)	<0.1 (50.1, 35)	<0.1 (50.1, 33)	<0.1 (50.1, 30)	<0.1 (50.1, 29)
	MAINTENANCE ENGINEER	—	—	<0.1 (50.1, 9)	<0.1 (50.1, 10)	<0.1 (50.1, 7)
	UTILITY TECHNICIAN	<0.1 (50.1, 3)	—	<0.1 (50.1, 15)	<0.1 (50.1, 9)	<0.1 (50.1, 8)
	PLANT MANAGER	<0.1 (50.1, 1)	—	<0.1 (50.1, 1)	<0.1 (50.1, 1)	—
	PLANT SUPERINTENDENT	—	—	<0.1 (50.1, 1)	<0.1 (50.1, 1)	<0.1 (50.1, 1)
	CONTRACT SUPERVISOR	<0.1 (50.1, 1)	—	—	—	—

Give average concentrations in ppm followed by maximum and # of samples in parentheses, if possible. Attach additional pages as necessary to discuss additional information such as indicate detection limits and handling of non-detectable measurements.

OCCUPATIONAL EXPOSURE TO VINYL CHLORIDE 8-HOUR TIME WEIGHTED AVERAGES

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Give average concentrations in ppm followed by maximum and # of samples in parentheses, if possible. Attach additional pages as necessary to discuss additional information such as indicate detection limits and handling of non-detectable measurements.



A Division of The Society of The Plastics Industry, Inc.

orig/ing file

FAX

this may be a new file

VRD 0002049030

TO: Dave Penney FROM: MEREDITH SCHECK
RE: (see below) DATE: 10/7/92 #/PAGES: -1- (plus cover)

COMMENTS:

CONFIDENTIAL SURVEY

This is a copy for you. Vista's went to V. Messick

TO: VI HEALTH, SAFETY & ENVIRONMENT COMMITTEE

RE: INPUT TO CANTOX REVIEWERS -- Immediate Assistance
Requested -- RESPONSE NEEDED BY OCTOBER 14

The expert panel that is reviewing the work product of CANTOX on chlorine (to which the VI is a contributor) has suggested that it would be extremely useful to include occupational exposure data for vinyl chloride. Dave Penney of Vista and Bob Hinderer of BFGoodrich, who are serving as part of the VI team on the CANTOX project, have developed the attached chart which traces occupational exposure for the past five years by type of facility and by job function. Please note that:

- o if your data is in some other format, please use whatever format is the most efficient for you to use to comply with this request
- o the data should cover your "normal operations", i.e. NOT for "turn arounds" or operations under extraordinary circumstances

Please respond to this request no later than October 14. I will assure that the data provided will be presented to the industry review team in a format in which company identification has been removed. Your assistance is greatly appreciated.

Meredith N. Scheck
Assistant Director

Attachment

COMPANY NAME _____

OCCUPATIONAL EXPOSURE TO VINYL CHLORIDE
8-HOUR TIME WEIGHTED AVERAGES

YR0 0002049031

Manufacturing Type(VCM, PVC resin, compound or extrusion)	Operation/Job category	1988	1989	1990	1991	1992

Give average concentrations in ppm followed by maximum and # of samples in parentheses, if possible. Attach additional pages as necessary to discuss additional information such as indicate detection limits and handling of non-detectable measurements.

Person Completing Form_____
Telephone

VISTARequest for
Facsimile TransmissionDATE 10/13

FROM

EMPLOYEE

Chris Markerson

EXT.

LOCATION (CITY)

OKC

ROOM NO.

TO

NAME

Dave Penney

PHONE NO.

DEPARTMENT

R&D

LOCATION (CITY)

*Austin*NO. OF PAGES
EXCLUDING COVER*4*

NOTE—

1. Your originals must have good contrast (dark detail on light background)
2. Legible
3. 1/2-inch margins on all sides of sheet
4. Number all pages

SPECIAL
INSTRUCTIONS

VISTA

Chris Markerson

Dave Penney

Date 10/13

Attached is the "easily retrievable"
NCM exposure information
from the OKC plant. Info is
not broken down by Job,
but is an overall picture
of exposures. #'s of .25 or
less are typically < .25 for example
or below detectable limit.

DS

VRD 0002049034

OKLAHOMA CITY PVC PLANT VCM MONITORING DATA

MONITORING RESULTS	MONITORING DATE	QUARTER	MEAN	UCL	0.375959
0.13	23-Dec-89	FY1Q 90	0.206075	1	
0.13	23-Dec-89		0.206075	1	0
0.13	23-Dec-89		0.206075	1	0
2.1	23-Dec-89		0.206075	1	1.97
0.13	23-Dec-89		0.206075	1	1.97
0.13	24-Dec-89		0.206075	1	0
0.18	27-Dec-89		0.206075	1	0.05
0.18	27-Dec-89		0.206075	1	0
0.18	27-Dec-89		0.206075	1	0
0.18	27-Dec-89		0.206075	1	0
0.18	27-Dec-89		0.206075	1	0
0.51	27-Dec-89		0.206075	1	0.33
0.22	29-Dec-89		0.206075	1	0.29
0.18	29-Dec-89		0.206075	1	0.04
0.18	29-Dec-89		0.206075	1	0
0.22	29-Dec-89		0.206075	1	0.04
0.18	29-Dec-89		0.206075	1	0.04
0.18	29-Dec-89		0.206075	1	0
0.501	29-Dec-89		0.206075	1	0.321
0.18	29-Dec-89		0.206075	1	0.321
0.17	03-Jan-90	FY2Q	0.206075	1	0.01
0.2	03-Jan-90		0.206075	1	0.03
0.2	03-Jan-90		0.206075	1	0
0.23	04-Jan-90		0.206075	1	0.03
0.16	07-Jan-90		0.206075	1	0.07
0.082	16-Jan-90		0.206075	1	0.078
0.09	17-Jan-90		0.206075	1	0.008
0.13	30-Mar-90		0.206075	1	0.04
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.15	29-Mar-90		0.206075	1	0.02
0.13	29-Mar-90		0.206075	1	0.02
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.13	29-Mar-90		0.206075	1	0
0.132	29-Mar-90		0.206075	1	0.002
0.13	29-Mar-90		0.206075	1	0.002
0.13	29-Mar-90		0.206075	1	0
6.52	18-Sep-90	FY4Q	0.206075	1	8.39
0.19	18-Sep-90		0.206075	1	8.33
0.2	18-Sep-90		0.206075	1	0.01
0.19	18-Sep-90		0.206075	1	0.01
0.12	22-Sep-90		0.206075	1	0.07
0.12	22-Sep-90		0.206075	1	0
0.12	22-Sep-90		0.206075	1	0