

FEB 4 1992

BFGOODRICH COMPANY
ALTC INFORMATION CENTER

February 3, 1992

To: Bob Hinderer

From: Patty Hanlon
ALTC Information Center, Ext. 1175

Subj: Internal search request on monitoring of vinyl chloride

Bob,

I was asked by Jim Griffin to do a search similar to the one you requested from Peter Bowler, so Peter asked me to just forward you a copy of what I've given Jim.

If, after looking the materials over, you need a different focus on the search or need any further help, just give me a call.

Patty Hanlon

Ken Waltemate

Note (✓)

items

Bob H

21531001

BFG14874

February 3, 1992

To: Jim Griffin
Safety Department

From: Patty Hanlon
ALTC Information Center, Ext. 1175

Subj: Internal search for information on monitoring of vinyl chloride during the 70's

Re: "Recommendations of Uniform BFG CG Procedures for Carcinogen Labeling of PVC Products" by Faber, Haller, Robertson, Tenney & Taylor.

Jim,

Enclosed are results of the search you requested from our "STAR" database of BFG reports.

There are two listings of documents; both focus on anything regarding vinyl chloride and monitoring, detection, surveillance, exposure, hazards, safety or toxicity. The first listing is short, with only 13 items. I attempted to narrow the larger answer set down by searching on the authors you gave me plus a few more who appeared to be involved in that activity. You'll see mostly Haller, Decapita and O'Mara on the list. The longer list contains 139 items, has a broader scope and may indeed contain some "false hits". I'd rather have you scrutinize the list for yourself than mistakenly edit out information that you might have found helpful.

I found no traces of the publication you mentioned when we talked last Thursday in our database, but one title by Haller did stand out as being quite close: "Removal of 'Cancer-Hazard' Labels from Geon Latexes". Since I looked it up on the microfilm to see if it contained any references I printed a copy, and it is enclosed too.

The short printout was sorted by every author name, so you will see duplications when there are two or more authors. The longer document listing is sorted by document date from newest to oldest, and since I put no date restrictions into the search you will see documents from the 80's and 90's also. Where the record states the document's date as 04 July 1776, it's not true and not a joke. Records converted from an older version of software that contained none had these inserted as "dummy dates".

Documents with BFG numbers beginning with "03-" will be here on microfilm if you need any copies. Any others will have to be requested from Brecksville. Let me know if I can help any further on this.

21532901

BFG14875

SELECTED BFG AUTHORS ON VINYL CHLORIDE MONITORING

Item 1

BFG Number 03-047770
Title MODELING OF VCM CONCENTRATIONS DURING THERMAL PROCESSING OF PVC
Authors AHMED M J;HALLER H S
Recipients
Document Date 31 Mar 1983
Document Type SCA REPT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A MODEL IS DEVELOPED RELATING AMBIENT VINYL CHLORIDE (AVCM) LEVELS TO RVCM, BUILDING VOLUME, PVC PROCESSING RATE, BLDG TE MP, VENTILATION, ETC.. IN THE WORST CASE, ASSUMING AIR TURN-O OVER OF 5/HR, IF RVCM IS LESS THAN 32 PPM THEN AVCM WILL BE LESS THAN 0.5 PPM. (4R)

Item 2

BFG Number 03-043734
Title VCM CONTENT OF BROTHERTON LANDFILL SUBSURFACE WATER
Authors DECAPITA E G
Recipients
Document Date 01 Dec 1978
Document Type ANALYTICAL REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract THE RVCM IN SAMPLES RANGED FROM ND TO 7.5 PPB.

Item 3

BFG Number 03-026573
Title No Title Available - 1982 Conversion Record
Authors DECAPITA E G;KATZENMEYER E B;MORGAN R S
Recipients
Document Date 01 Mar 1969
Document Type DEVELOPMENT REPORT;R&D REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A STUDY OF VINYL CHLORIDE VAPOR CONCENTRATIONS IN AVON LAKE POLYMERIZERS KATZENMEYER-E-B DECAPITA-E-G MORGAN-R-S 1969 - KWIC

Item 4

BFG Number 03-017756
Title No Title Available - 1982 Conversion Record
Authors DECAPITA E G
Recipients
Document Date 04 Jul 1976
Document Type INTER-ORGANIZATION CORRESPONDENCE;TRIP REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC

Storage Media MICROFILM
Abstract IOC - TRIP-REPORT - ASTM COMMITTEE D-20 ON PLASTICS -
DECAPITA-E-G 1967-JULY-25 - KWIC

Item 5

BFG Number 03-017441
Title No Title Available - 1982 Conversion Record
Authors DECAPITA E G
Recipients
Document Date 04 Jul 1976
Document Type INTER-ORGANIZATION CORRESPONDENCE
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract IOC - GC ANALYSIS FOR ISOBUTYLENE IN VINYL CHLORIDE-PROPYLENE
POLYMERIZATION - DECAPITA-E-G 1967-JUNE-13 - KWIC

Item 6

BFG Number 03-040290
Title VCM MONITORING DURING ABSON/PVC EXTRUSION
Authors DORSCH J L;QUISENBERRY J G
Recipients
Document Date 22 Nov 1974
Document Type TECHNICAL REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract AMBIENT VCL CONCENTRATIONS RANGE BETWEEN 74 AND 550 PPB. THE
AUTHOR CANNOT RECONCILE THESE FINDINGS WITH A COCURRENT READING
OF 1500 PPM ON THE OVA INSTRUMENT.

Item 7

BFG Number 03-045731
Title REMOVAL OF "CANCER-HAZARD" LABELS FROM GEON LATEXES
Authors FARLEY D E;HALLER H S
Recipients
Document Date 01 Dec 1980
Document Type STATISTICS AND COMPUTER APPLICATIONS REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A COMPUTER PROGRAM WAS DEV'D WHICH SIMUL-S BOTH THE OSHA
PROCEDURE FOR MONITORING WORKER EXP TO AVCM AND THE EFFECTS OF
SAMPLING AND TESTING ON COMPLIANCE W OSHA REG. BASED ON THIS,
AVCM MUST BE LESS THAN 0.33 PPM TO ENSURE COMPLIANCE 95% OF THE
TIME. GEON 352 MEETS THIS REQ AT 50 PPM RVCM. RVCM SPECS FOR
GEONS 576 AND 450X20 SHOULD BE SET AT 20 PPM MAXIMUM. (1R/4T/5F)

Item 8

BFG Number 03-047770
Title MODELING OF VCM CONCENTRATIONS DURING THERMAL PROCESSING OF PVC
Authors AHMED M J;HALLER H S
Recipients
Document Date 31 Mar 1983

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21533002

BFG14877

Document Type SCA REPT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A MODEL IS DEVELOPED RELATING AMBIENT VINYL CHLORIDE (AVCM) LEVELS TO RVCM, BUILDING VOLUME, PVC PROCESSING RATE, BLDG TE MP, VENTILATION, ETC,. IN THE WORST CASE, ASSUMING AIR TURN-O OVER OF 5/HR, IF RVCM IS LESS THAN 32 PPM THEN AVCM WILL BE LESS THAN 0.5 PPM. (4R)

✓ Item 9

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Title REMOVAL OF "CANCER-HAZARD" LABELS FROM GEON LATEXES
Authors FARLEY D E;HALLER H S
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Document Date 01 Dec 1980
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Abstract A COMPUTER PROGRAM WAS DEV-D WHICH SIMUL-S BOTH THE OSHA PROCEDURE FOR MONITORING WORKER EXP TO AVCM AND THE EFFECTS OF SAMPLING AND TESTING ON COMPLIANCE W OSHA REG. BASED ON THIS, AVCM MUST BE LESS THAN 0.33 PPM TO ENSURE COMPLIANCE 95% OF THE TIME. GEON 352 MEETS THIS REQ AT 50 PPM RVCM. RVCM SPECS FOR GEONS 576 AND 450X20 SHOULD BE SET AT 20 PPM MAXIMUM. (1R/4T/5F)

✓ Item 10

BFG Number 03-026573
Title No Title Available - 1982 Conversion Record
Authors DECAPITA E G;KATZENMEYER E B;MORGAN R S
Recipients
Document Date 01 Mar 1969
Document Type DEVELOPMENT REPORT;R&D REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A STUDY OF VINYL CHLORIDE VAPOR CONCENTRATIONS IN AVON LAKE POLYMERIZERS KATZENMEYER-E-B DECAPITA-E-G MORGAN-R-S 1969 - KWIC

Item 11

BFG Number 03-039177
Title ADDENDUM REPORT 3 - ADDITIONAL STUDIES ON VCM ADSORPTION
Authors LEES G A;OMARA M M
Recipients
Document Date 01 May 1974
Document Type REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract

Item 12

BFG Number 03-038631
Title AN ANALYTICAL SYSTEM FOR MEASURING THE ADSORPTION OF VCM ON
CHARCOAL
Authors LEES G A;OMARA M M
Recipients
Document Date 01 Feb 1974
Document Type TECHNICAL REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract

Item 13

BFG Number 03-029133
Title No Title Available - 1982 Conversion Record
Authors LEES G A;OMARA M M
Recipients
Document Date 04 Jul 1976
Document Type STAFF TECHNICAL SERVICES REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract CSR GRAY-FOLDER DEGRADATION AND COMBUSTION PRODUCTS FROM POLY (VINYL) CHLORIDE IX COMBUSTION PRODUCTS FROM VINYL CHLORIDE MONOMER OMARA-M-M LEES-G-A 1970-01-16 - KWIC

Item 14

BFG Number 03-026573
Title No Title Available - 1982 Conversion Record
Authors DECAPITA E G;KATZENMEYER E B;MORGAN R S
Recipients
Document Date 01 Mar 1969
Document Type DEVELOPMENT REPORT;R&D REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A STUDY OF VINYL CHLORIDE VAPOR CONCENTRATIONS IN AVON LAKE POLYMERIZERS KATZENMEYER-E-B DECAPITA-E-G MORGAN-R-S 1969 - KWIC

Item 15

BFG Number 03-040270
Title GAS SAMPLING DURING CUSTOM MOLDING OF ABSON 89129
Authors OMARA M M;SWANSON M
Recipients
Document Date 14 Nov 1974
Document Type IOC;TECHNICAL REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract DESCRIBES THE SAMPLING METHODS USED TO ANALYZE FOR AMBIENT VCL IN THE ENVIRONMENT SURROUNDING MOLDING OPERATIONS INVOLVING PVC-CONTAINING ABSON COMPOUNDS. SOME ANALYTICAL DATA ARE PROVIDED WITH MORE TO FOLLOW.

Item 16

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BFG14879

21533004

BFG Number 03-039297
Title A METHOD FOR ANALYZING VCM AT THE PART-PER-BILLION LEVEL
Authors OMARA M M;QUISENBERRY J G
Recipients
Document Date 07 Jun 1974
Document Type STAFF TECHNICAL SERVICES REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A GAS CHROMATOGRAPHIC METHOD BASED ON FLAME IONIZATION DETECTION AND COCONUT CHARCOAL ADSORPTION HAS BEEN DEVELOPED FOR DETECTING VCM IN THE ATMOSPHERE AT THE 1 PPB LEVEL. THE BASIC PRINCIPLE INVOLVES THE ADSORPTION OF A 250 ML AIR SAMPLE ON ACTIVATED CHARCOAL CONTAINED IN THE SAMPLE LOOP OF A GAS CHROMATOGRAPH. THE LOOP IS HEATED TO 200C TO DESORB VCM AND THE VCM IS THEN ANALYZED CHROMATOGRAPHICALLY. A CALIBRATION CURVE RANGING FROM 5 PPB TO 280 PPB WAS EXPERIMENTALLY DETERMINED. THE CURVE WAS LINEAR AND REGRESSION ANALYSIS OF THE DATA REVEALED A P OR M 3.0% DEVIATION IN THE SCOPE OF THE CALIBRATION CURVE. A 9% DEVIATION IN REPRODUCIBILITY (5 RUNS) EXISTS AT THE 20 PPB LEVEL. A COMPLETE DESCRIPTION OF THE METHOD IS PROVIDED. THE GENERAL METHOD IS POTENTIALLY APPLICABLE TO SUBSTANTIALLY LOWER VCM LEVELS. (4R)

Item 17

BFG Number 03-039177
Title ADDENDUM REPORT 3 - ADDITIONAL STUDIES ON VCM ADSORPTION
Authors LEES G A;OMARA M M
Recipients
Document Date 01 May 1974
Document Type REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract

Item 18

BFG Number 03-038631
Title AN ANALYTICAL SYSTEM FOR MEASURING THE ADSORPTION OF VCM ON CHARCOAL
Authors LEES G A;OMARA M M
Recipients
Document Date 01 Feb 1974
Document Type TECHNICAL REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract

Item 19

BFG Number 03-029133
Title No Title Available - 1982 Conversion Record
Authors LEES G A;OMARA M M
Recipients
Document Date 04 Jul 1976
Document Type STAFF TECHNICAL SERVICES REPORT

ALTC INFORMATION CENTER - PAH - 01/31/92

21533005

BFG14880

Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract CSR GRAY-FOLDER DEGRADATION AND COMBUSTION PRODUCTS FROM POLY (VINYL) CHLORIDE IX COMBUSTION PRODUCTS FROM VINYL CHLORIDE MONOMER OMARA-M-M LEES-G-A 1970-01-16 - KWIC

Item 20

BFG Number 03-025674
Title No Title Available - 1982 Conversion Record
Authors OMARA M M
Recipients
Document Date 04 Jul 1976
Document Type DEVELOPMENT REPORT;R&D REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract DEGRADATION AND COMBUSTION PRODUCTS FROM POLY (VINYL CHLORIDE) II - DESCRIPTION OF PYROLYSIS UNIT AND INITIAL PYROLYSIS OF PVC OMARA-M-M 1968-02-02 - KWIC

Item 21

BFG Number 03-040290
Title VCM MONITORING DURING ABSON/PVC EXTRUSION
Authors DORSCH J L;QUISENBERRY J G
Recipients
Document Date 22 Nov 1974
Document Type TECHNICAL REPORT
Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract AMBIENT VCL CONCENTRATIONS RANGE BETWEEN 74 AND 550 PPB. THE AUTHOR CANNOT RECONCILE THESE FINDINGS WITH A COCURRENT READING OF 1500 PPM ON THE OVA INSTRUMENT.

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Restriction 0 (Unrestricted)
Master File Location ALTC
Storage Media MICROFILM
Abstract A GAS CHROMATOGRAPHIC METHOD BASED ON FLAME IONIZATION DETECTION AND COCONUT CHARCOAL ADSORPTION HAS BEEN DEVELOPED FOR DETECTING SELECTED AUTHORS ON VINYL CHLORIDE MONITORING

VCM IN THE ATMOSPHERE AT THE 1 PPB LEVEL. THE BASIC PRINCIPLE INVOLVES THE ADSORPTION OF A 250 ML AIR SAMPLE ON ACTIVATED CHARCOAL CONTAINED IN THE SAMPLE LOOP OF A GAS CHROMATOGRAPH. THE LOOP IS HEATED TO 200C TO DESORB VCM AND THE VCM IS THEN ANALYZED CHROMATOGRAPHICALLY. A CALIBRATION CURVE RANGING FROM 5 PPB TO 280 PPB WAS EXPERIMENTALLY DETERMINED. THE CURVE WAS LINEAR AND REGRESSION ANALYSIS OF THE DATA REVEALED A P OR M 3.0% DEVIATION IN THE SCOPE OF THE CALIBRATION CURVE. A 9%

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21533006

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Title	GAS SAMPLING DURING CUSTOM MOLDING OF ABSON 89129
Authors	OMARA M M;SWANSON M
Recipients	
Document Date	14 Nov 1974
Document Type	IOC;TECHNICAL REPORT
Restriction	0 (Unrestricted)
Master File Location	ALTC
Storage Media	MICROFILM
Abstract	DESCRIBES THE SAMPLING METHODS USED TO ANALYZE FOR AMBIENT VCL IN THE ENVIRONMENT SURROUNDING MOLDING OPERATIONS INVOLVING PVC-CONTAINING ABSON COMPOUNDS. SOME ANALYTICAL DATA ARE PROVIDED WITH MORE TO FOLLOW.