

FILE NAME: John Crane (JC)

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Consultant Comments



Ontario
Ministry of
Labour

Occupational Health Branch
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Tel: (416) 965-4066

May 11, 1982

Mr. A. Giacomelli
Crane Packing
423 Crane Road
Stoney Creek, Ontario

Dear Mr. Giacomelli:

Please find enclosed a copy of the Exposure Assessment Report prepared by M. Tompkins, following a visit to your plant on March 30, 31, 1982, and a memo prepared by P. McHugh, M.Sc.

Yours truly,

A handwritten signature in dark ink, appearing to read 'G.S. Rajhans', written over a horizontal line.

G.S. Rajhans, M.Sc. (Eng), P. Eng.
Chief
Occupational Hygiene Service

GSR/dw
Enclosure



Date May 11, 1982	From/De P. McHugh, M. Sc.	E.A.R. No./ R.E.E. No
I.H.S.B. File No. / Dossier D.S.S.I. No 355-00003-0002	I.H.S.B. Region No. / Région D.S.S.I. No	O.H.B. File No. / Dossier D.S.T. No 20982CAOB

Plant / Enterprise

Crane Packing

Address / Adresse

423 Crane Road
Stoney Creek, Ontario

Hazard / Risque

Asbestos, n-Butanol, Lead, 1,1,1,-Trichloroethane

Orders Suggested / Recommendations

☐ Yes / Oui ☒ No / Non

Further Action by O.H.B. / Autres mesures à prendre le D.S.T.

None anticipated

Copies to / Copies à

Dr. D. Leong
Dr. P. Pelmear
Mr. S. Kwok
Mr. A. Giacomelli
Mr. W. Melinyshyn (3)
Central File - Tor

The attached Exposure Assessment Report contains the results of air sampling and analysis for asbestos, n-Butanol, Lead, and 1,1,1-Trichloroethane.

These samples were obtained by Mr. M. Tompkins and Ms. B. Simpson, Occupational Health Technicians on March 30, & 31, 1982.

Comments

1. In Ontario the current guidelines for occupational exposure to the various substances sampled is as follows:

<u>Contaminant</u>	<u>TWA</u>
Chrysotile Asbestos	2 fibres/cc
Crocidolite Asbestos	0.2 fibres/cc
n-Butanol	50 ppm
1,1,1,-Trichloroethane	350 ppm

Occupational exposure to lead is limited to 0.15 mg/m^3 as a time weighted average for a forty hour workweek as per Ontario Regulation 536/81.

2. All samples taken are below their respective guidelines.

Crane Packing

-2-

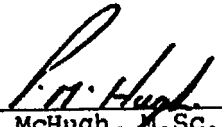
May 11, 1982

Further Action by this Branch:

None anticipated.

Orders Suggested for Issue by a Ministry of Labour Safety Officer:

None at this time.



P. McHugh, M.Sc.
Consultant
Occupational Health Branch

PM/dw



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du Travail
de l'Ontario

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Direction
de la santé
au travail

Exposure Assessment Report
Rapport d'évaluation de l'exposition

Date May 6, 1982	From/De M. Tompkins	I.H.S.B. File No./ Dossier D.S.S.I. N° 355-00003-0002	O.H.B. File No./ Dossier D.S.T. N° 20982CA0B	E.A.R. No./R.E.E. N°
Plant/ Usine Crane Packing		Date of Request/ Date de la demande March 4, 1982		
Address/ Adresse 423 Green Road Stoney Creek, Ontario		Requested by/ Demandé par P. McHugh, OHB		
Contacts/ Personnes contactées Mr. A. Giacomelli, Plant Engineer Mr. D. Howard, Health & Safety Committee		Accompanied by/ Accompagné par B. Simpson, OHB		
Hazard/ Risque Asbestos, n-Butanol Lead, 1,1,1 trichloroethane		Date of Visit/ Date de la visite March 30, 31, 1982		
		Copies to/ Copies à Dr. D. Leong Dr. P. Pelmear Mr. S. Kwok Mr. M. Budlovsky Mr. A. Giacomelli Mr. W. Melinyshyn (3) _____		
Abstract/ Sommaire des résultats				

The exposure assessment survey was conducted at Crane Packing to assess the above mentioned hazards. The following tables list sample locations and results.

The n-Butanol and the 1,1,1 trichloroethane air samples were collected by drawing air through activated charcoal tubes at a flow rate of 0.1 litres per minute.

The air samples for lead were collected by drawing air through three piece filter holder cassettes containing 37 millimeter diameter, 0.8 micrometer pore size cellulose ester filters. An air flow rate of two litres per minute was used.

The asbestos air samples were collected by drawing air through open face two piece cassettes containing 37 millimeter, 0.8 micrometer pore size cellulose ester filters. An air flow rate of 2.0 litres per minute was used.

Observations

March 30, 1982

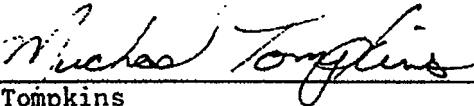
During the air sampling visit the following was observed:

- all ceiling fans were "on".
- ventilation at the mixer was "on".
- packing of 1 pound containers of "plastic lead sealer" was done by John LaFitte (Sample 1) during the sampling period.

March 31, 1982

During the air sampling visit the following was observed:

- (S. 21) wore a 3M 8710 respirator NIOSH approval number TC-21C-132.
- 320 pounds of lead powder was used in the mixing of plastic lead sealer.
- ventilation at the mixer was "on".
- all ceiling fans were "on".
- the blue felt asbestos is to be phased out by the company in the near future as told to the writer by Mr. Giacomelli.
- no blue felt asbestos (crocidolite) was being used by the employees but employees were working 10 to 15 meters from the pallet with the asbestos on it.



M. Tompkins
Occupational Health Technician

MT/hk



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Table of Results

☒ Personal Samples

☒ Area Samples

Company Crane Packing	Date March 30, 1982	Table No. 1
Address 423 Green Road Stoney Creek, Ontario	O.H.B. File No. 20982CA0B	E.A.R. File No.

Air Samples

Sample No.	Employees Name and ☒ Job Description or ☒ Location	Pump Name and Code No.	Hazard: <u>Lead</u>		Standard or T.L.V.		TWA-ETL = 0.15 mg/m ³	
			Time Minutes	Volume Litres corrected for Temp-Press	Weight ☐ Milligrams ☒ Micrograms	Concentration ☒ mg/m ³ of air ☐ ppm	S.I. Metric Unit	
							Weight Micromoles	Conce µmole of air
1	(S. 21) Lead Seal Mixer	B260	145	290	< 1	< 0.003	< 0.005	< 0.02
2	Area Sample, 2 meters east of Mixer	B261	145	290	< 1	< 0.003	< 0.005	< 0.02
3	Area Sample, 10 meters south of Mixer	B258	145	290	< 1	< 0.003	< 0.005	< 0.02
4	(S. 21) braider 20 meters from Mixer.	B259	145	290	< 1	< 0.003	< 0.005	< 0.02
" < " - Denotes Less Than								



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Table of Results

☒ Personal Samples

☒ Area Samples

Company Crane Packing	Date March 31, 1982	Table No. 2
Address 423 Green Road Stoney Creek, Ontario	O.H.B. File No. 20982CA0B	E.A.R. File No.

Air Samples

Sample No.	Employees Name and ☒ Job Description or ☒ Location	Pump Name and Code No.	Hazard: <u>Lead</u>		Standard or T.L.V.		TWAEL = 0.15 mg/m ³	
			Time Minutes	Volume Litres corrected for Temp-Press	Weight ☐ Milligrams ☒ Micrograms	Concentration ☒ mg/m ³ of air ☐ ppm	S.I. Metric Unit Weight Micromoles	Conce Umole: of air
5	(S.21) Lead Seal Mixer	M4	45	90	< 1	*	< 0.005	*
6	Area Sample 2 meters east of mixer	M61	120	240	1.2	0.005	0.006	0.01
"L" - Denotes Less Than								
* the concentrations of air borne lead were not detected at or above the levels corresponding to the analytical detection limit of 1 microgram or 0.005 micromoles.								



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Table of Results

☒ Personal Samples

☒ Area Samples

Company Crane Packing	Date March 30, 1982	Table No. 3
Address 423 Green Road Stoney Creek, Ontario	O.H.B. File No. 20982CA0B	E.A.R. File No.

Air Samples

Sample No.	Employees Name and ☒ Job Description or ☒ Location	Pump Name and Code No.	Hazard: <u>n-Butanol</u>		Standard or T.L.V.		TLV-TWA = 50 ppm	
			Time Minutes	Volume Litres corrected for Temp-Press	Weight ☒ Milligrams ☐ Micrograms	Concentration ☐ mg/m ³ of air ☒ ppm	S.I. Metric Unit Weight Micromoles	Conc Umoles of air
1	(S.21) Lead Seal Mixer	B257	95	9.5	0.05	2	0.7	74
1A	Sequential to above	B257	100	10	0.10	3	1.3	130
2	Area Sample, 2 meters east of mixer	B221	95	9.5	0.08	3	1.1	116'
2A	Sequential to above	B221	100	10	0.26	9	3.5	350
3	(S.21) machinist	B220	95	9.5	< 0.01	< 0.3	< 0.1	< 10
3A	Sequential to above	B220	100	10	< 0.01	< 0.3	< 0.1	< 10
" < " - Denotes Less Than								



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Table of Results

☒ Personal Samples

☒ Area Samples

Company Crane Packing	Date March 31, 1982	Table No. 4
Address 423 Green Road Stoney Creek, Ontario	O.H.B. File No. 20982CAOB	E.A.R. File No.

Air Samples

Sample No.	Employees Name and ☒ Job Description or ☒ Location	Pump Name and Code No.	Hazard: <u>n-Butanol</u>		Standard or T.L.V.		TLV-TWA = 50 ppm	
			Time Minutes	Volume Litres corrected for Temp-Press	Weight ☒ Milligrams ☐ Micrograms	Concentration ☐ mg/m ³ of air ☒ ppm	Weight Micromoles	Conce Umole of air
1B	(S.21) Lead Seal Mixer	B257	120	12	0.05	1	0.7	58
2B	Area Sample, 2 meters east of mixer	B221	120	12	0.21	6	2.8	233

"L" Denotes Less Than



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Table of Results

☒ Personal Samples

☒ Area Samples

Company Crane Packing	Date March 30, 1982	Table No. 5
Address 423 Green Road Stoney Creek, Ontario	O.H.B. File No. 20982CAOB	E.A.R. File No.

Air Samples

Sample No.	Employees Name and ☒ Job Description or ☒ Location	Pump Name and Code No.	Hazard: <u>1,1,1 trichloroethane</u>		Standard <u>TLV-TWA = 350 ppm</u> or T.L.V.			
			Time Minutes	Volume Litres-corrected for Temp-Press	Weight ☒ Milligrams ☐ Micrograms	Concentration ☐ mg/m ³ of air ☒ ppm	S.I. Metric Unit	
							Weight Micromoles	Conce Umole of air
1	(S. 21) Lead Seal Mixer	B257	95	9.5	1.20	23	9.0	947
1A	Sequential to above	B257	100	10	0.27	5	2.0	200
2	Area Sample, 2 meters east of mixer	B221	95	9.5	0.29	5	2.2	232
2A	Sequential to above	B221	100	10	0.17	3	1.3	130
3	(S. 21) machinist	B220	95	9.5	0.07	1	0.5	53
3A	Sequential to above	B220	100	10	<0.01	<0.2	<0.1	< 10
"L" - Denotes Less Than								



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Table of Results

☒ Personal Samples

☒ Area Samples

Company	Date	Table No.
Crane Packing	March 31, 1982	6
Address	O.H.B. File No.	E.A.R. File No.
423 Green Road Stoney Creek, Ontario	20982CA03	

Air Samples

Sample No.	Employees Name and ☒ Job Description or ☒ Location	Pump Name and Code No.	Hazard: <u>1,1,1, trichloroethane</u>		Standard TLV-TWA = 350 ppm or T.L.V.		S.I. Metric Unit	
			Time Minutes	Volume Litres corrected for Temp. Press.	Weight ☒ Milligrams ☐ Micrograms	Concentration ☐ mg/m ³ of air ☒ ppm	Weight Micromoles	Conce Umole of air
1B	(S.21) Lead Seal Mixer	B257	120	12	0.15	2	1.1	92
2B	Area Sample, 2 meters east of mixer	B221	120	12	0.36	5	2.7	225



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Table of Results

- ☐ Personal Samples
☒ Area Samples

Company
Crane Packing

Address
423 Green Road
Stoney Creek, Ontario

Date
March 31, 1982

Table No.
7

OHB File No.
20982CA0B

AQA File No.

Air Samples

Sample No.	Employees Name and ☐ Job Description or ☒ Location	Pump Name and Code No.	Hazard: <u>ASBESTOS</u> TLV-TWA 0.2 fibres/cc			
			Time Minutes	Volume Litres corrected for Temp. Press	Total Fibres Greater than 5 Micrometers in Length per cc of Air	Conc'n T.L.V
1	Area Sample, 5 meters south west of pallet with asbestos (on weight scale)	B217	240	480	< 0.1	
2	Area Sample, ½ meter south of pallet with asbestos	B218	240	480	< 0.1	
3	Area Sample, 1 meter north of pallet with asbestos	B219	240	480	< 0.1	
" < " - Denotes Less Than						