SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD *	C/P STANDARD OR GUIDELINE		C/P IS DIFFERENT THAN ACGIH
			Ceiling	8 Hr TWA	
2-Acetylaminofluorene (1)	---	NE (c)	NE	NE	
Acrylamide (6)	0.3 mg/M3 (7)	0.1 ppm TWA (c)(a)		0.1 ppm	
Acrylonitrile (2)	NE (5)	2 ppm TWA (c) 4 ppm (a)	10 ppm	2	Yes
4-Aminodiphenyl (1)	NE (5)	NE (c)		NE	
Aniline (2)	2 ppm (5)	5 ppm TWA	5 ppm	5	Yes
Asbestos (1)	5 fibers/cc >5 µm long	2 fibers/cc >5 µm long (c)	Same as OSHA		Yes
Benzene (2)	10 ppm	1 ppm ceiling/1hr (a) 10 ppm TWA (c)	5 ppm	1 NSOOC	Yes
Benzidine (1)	NE	NE (c)		NE	
Benzidine-derived Dyes (1)	---	---		NE	
Bis-2-Chloroethyl Ether (1)	5 ppm	15 ppm ceiling (c)		0.1 ppm	
Bis-2-Chloroethyl-2-Naphthylamine (1)				NE	
Bis-Chloromethyl Ether (1)	.001 ppm	NE (c)		NE	Yes

PLAINTIFF'S EXHIBIT
UC-1883

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ACL Doc 16948 · Page 1 of 10
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SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD*	C/P STANDARD OR GUIDELINE Ceiling	C/P STANDARD OR GUIDELINE 8 Hr TWA	C/P IS DIFFERENT THAN ACGIH
Cadmium(2)	0.05 mg/m^3	0.1 mg/m^3 TWA (c) 40 µg/m^3 TWA (a)	200 µg/m^3	40	Yes
Carbaryl (SEVIN(R))(6)	5 mg/m^3(7)	5 mg/m^3 TWA (a)(c)			
Carbon Monoxide(2)	50 ppm	50 ppm TWA (c) 35 ppm TWA (a)	50 ppm	50	
Carbon Tetrachloride(2)	5 ppm(5)	10 ppm TWA (c) 2 ppm Ceiling/hr (a)	4 ppm	2	Yes
Chloroform(2)	10 ppm	50 ppm ceiling (c) 2 ppm ceiling/hr (a)	4 ppm	2	Yes
Chloroprene(1)	10 ppm	25 ppm TWA (c) 1 ppm ceiling/15 min(a)		1 ppm	Yes
3-Chloropropene		1 ppm		1 ppm	
Chromates of Lead or Zinc(1)	0.05 mg/m^3(as Cr)	---	0.05 mg/m^3(as Cr)		
Chromium-6 Carcinogenic Cpds(1) (including Bis-Triphenyl Silyl Chromate)	0.05 mg/m^3	1 µg/m^3 (a)		1 µg/m^3	
12-Crown-4 Ether (9)				10 ppb	
18-Crown-6 Ether (9)				10 ppb	
Di-Sec-Butoxyacetophenone(1)	---	---	NSOOC		

Union Carbide trial exhibit UC-1883: Shirley D. Conner to M. R. Huffman Transmitting a List of Chemicals and Plasti...
ACL Doc 16948 · Page 2 of 10
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SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD*	C/P STANDARD OR GUIDELINE Ceiling	C/P STANDARD OR GUIDELINE 8 Hr TWA	C/P IS DIFFERENT THAN ACGIH
3,3-Dichlorobenzidine[1] (and Salts)	ME	NE (c)		NE	
Dichloroethyl Ether (CHLOREX) (6)	5 ppm	15 ppm ceiling		0.05 ppm	Yes
Diethyl Sulfate[1]	---	---	NSOOC	1 ppm	
Diisopropyl Sulfate[1]	---	---	NSOOC	1 ppm	
Dimethylacetamide[2]	10 ppm	10 ppm	10 ppm NSC	10 NSC	
Dimethylaminoazobenzene[1]	5 ppm	NE (c)		NE	Yes
Dimethylaminopropionitrile[6]		ME		NSOOC	
Dimethylformamide[2]	10 ppm	10 ppm	10 ppm NSC	10 NSC	
Dimethyl Sulfate[1]	0.1 ppm	1 ppm (c)	NSOOC	0.1 ppm	
Dimethyl Sulfoxide[2]		NS	10 ppm NSC	10 NSC	
1,4-Dioxane[1]	25 ppm	1 ppm ceiling/30 min(a) 100 ppm TWA (c)	NSOOC	50 ppm	Yes
Dioxine[2]		NE	NE	NE	

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ACL Doc 16948 · Page 3 of 10
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SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD*	C/P STANDARD OR GUIDELINE		C/P IS DIFFERENT THAN ACGIH
			Ceiling	8 Hr TWA	
Epichlorohydrin(1)	5 ppm (2 ppm(5))	2 mg/m^3 TWA (a) 5 ppm TWA (c)		0.5 ppm	Yes
Epoxy Resin ERL 2774(1)	---	---	NSOOC	10 ppm	
Epoxy Resin ERL 4205(1)	---	---	NSOOC	10 ppm	
Epoxy Resin ERL 4206 (1)	10 ppm	---	NSOOC	10 ppm	
Epoxy Resin ERL 4234(1)	---	---	NSOOC	10 ppm	
Ethyl Acrylate(6)	5 ppm	25 ppm TWA (c)		5 ppm	
Ethylene Dibromide(1)	NE	1 mg/m^3 ceiling/15 min (a)		0.1 ppm	Yes
Ethylene Dichloride(6)	10 ppm	1 ppm TWA (a) 50 ppm TWA (c)		5 ppm	Yes
Ethyleneimine(1)	0.5 ppm	NE (c)		NE	Yes
Ethylene Oxide(8)		50 ppm (c)		10 ppm	
Ethylene Thiourea(2)	---	NS (c) ME (a)	NE	NE	
2-Ethylhexyl Acrylate(1)	---	---		5 ppm	

Union Carbide trial exhibit UC-1883: Shirley D. Conner to M. R. Huffman Transmitting a List of Chemicals and Plasti...
ACL Doc 16948 · Page 4 of 10
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asbestosclaims.law/library/16948/4

SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD*	C/P STANDARD OR GUIDELINE		C/P IS DIFFERENT THAN ACGIH
			Ceiling	8 Hr TWA	
"Ethyl-Oils"[6] (by-product fraction from Ethanol process)		---		ME	
Fluorocarbon 22 [2]		1000 ppm	1000 ppm	1000	
Formaldehyde [6]	2 ppm	1 ppm ceiling/30 min(a) 3 ppm TWA (c)		2 ppm	
Formamide [2]	20 ppm	20 ppm	20 ppm NSC	20 NSC	
Glycidoxy Propyl Trimethoxy Silane [6]		---		ME	
Heating Oils [6]		---		NSC	
Hexafluoroacetone [2]	0.1 ppm	0.1 ppm	0.1 ppm NSC	0.1 NSC	
Hydrogen Sulfide [2]	10 ppm	20 ppm ceiling (c) 10 ppm ceiling/10 min(a)	10 ppm	10	
Hydrolube [6]		---	NSOOC		
Lead [2]	0.15 mg/m^3	0.2 mg/m^3 TWA (c) <100 $\mu g/m^3$ (a)	50 $\mu g/m^3$		Yes
Mercury, Alkyl Cpds [2]	.001 ppm	0.1 mg/m^3 ceiling (c) .05 mg/m^3 TWA (a)	NE	NE	Yes
Methylchloromethyl Ether [1]	---	NE (c)		NE	

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Union Carbide trial exhibit UC-1883: Shirley D. Conner to M. R. Huffman Transmitting a List of Chemicals and Plasti...
ACL Doc 16948 · Page 5 of 10
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asbestosclaims.law/library/16948/5

SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD*	C/P STANDARD OR GUIDELINE Ceiling	C/P STANDARD OR GUIDELINE 8 Hr TWA	C/P IS DIFFERENT THAN ACGIH
Methylenedianiline(1)	---	---	NSOOC		
α-Naphthylamine(1)	---	NE (c)		NE	
β-Naphthylamine(1)	NE	NE (c)		NE	
Neopentyl Glycol Diacrylate(1)	---	---	NSOOC		
Nickle, Inorganic(1)	1 mg/m^3	1 mg/m^3 TWA (c) 15 μg/m^3 TWA (a)		1 mg/m^3	
Nitric Oxide(2)	25 ppm	25 ppm TWA (c)	25 ppm	25	
Nitrobenzene(2)	1 ppm	1 ppm	1 ppm	1	
4-Nitrodiphenyl(1)	NE	NE (c)		NE	
2-Nitropropane(1)	25 ppm	NE (b)		1 ppm	Yes
Nitrosoamines(1)	---	---	NSOOC		
N-Nitrosodimethylamine(1)	NE	NE (c)	NE	NE	
Peracetic Acid(6)		---	NSOOC		

BRB 0460

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ACL Doc 16948 · Page 6 of 10
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SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD*	C/P STANDARD OR GUIDELINE Ceiling	C/P STANDARD OR GUIDELINE 8 Hr TWA	C/P IS DIFFERENT THAN ACGIH
Perchloroethylene[1]&[2] (Tetrachloroethylene)	100 ppm	50 ppm (a) 100 ppm (c)	15 ppm	10	Yes
Phenyl-Alpha-Naphthylamine		NE		ME	
Phenyl-Beta-Naphthylamine	NE	---		ME	Yes
Polychlorinated Biphenyls[1]	1 mg/m^3 42% Cl 0.5 mg/m^3 54% Cl	1 µg/m^3 TWA (a) Same as ACGIH (c)	3 µg/m^{3}NSC	1 µg/m^{3}NSC	Yes
Polycyclic Aromatic Hydrocarbons[2] (Fuel Oil Residues)	200 µg/m^3	100 µg/m^3 (a)[1]	600 µg/m^{3}NSC	200 µg/m^3	
B-Propiolactone[1]	NE	NE		NE	
Radiation[2]		(3)	---	0.5 RADS	
Styrene[6]	50 ppm[7]	100 ppm TWA (c)		50 ppm	
Styrene Oxide[6]		---	NSOOC		
Tetramethylthiourea[2]		---	NE	NE	
Tetramethylurea[2]		---	NE	NE	
Toluene-2,4-Diamine[1]	---	---	NSOOC	0.1 ppm	

Union Carbide trial exhibit UC-1883: Shirley D. Conner to M. R. Huffman Transmitting a List of Chemicals and Plasti...
ACL Doc 16948 · Page 7 of 10
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asbestosclaims.law/library/16948/7

SUBSTANCE	ACGIH TLV TWA	NIOSH PROPOSAL OR OSHA STANDARD*	C/P STANDARD OR GUIDELINE		C/P IS DIFFERENT THAN ACGIH
			Ceiling	8 Hr TWA	
Trichloroethylene[1]	100 ppm (50 ppm[5])	100 ppm TWA (c) 25 ppm TWA (a)		25 ppm	Yes
Triphenyl Phosphine[6]		---	NSOOC		
Vinyl Chloride[1]	5 ppm	1 ppm TWA (c)	5 ppm	1 ppm	Yes
Vinyl Toluene[2]	100 ppm (50 ppm[5])	100 ppm	30 ppm	20	Yes

Union Carbide trial exhibit UC-1883: Shirley D. Conner to M. R. Huffman Transmitting a List of Chemicals and Plasti...
ACL Doc 16948 · Page 8 of 10
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Footnotes:

(1) C&P Safety and Health Team Listing of Potential Carcinogens, 9/25/79.

(2) "List of Risks That May Have Adverse Effects on The Fetus," E. Q. Hull, M.D., 3/5/79.

(3) National Council of Radiation Protection Standard 53:05 RADS for X-Ray, gamma total during pregnancy.

(4) AE - Avoid Exposure

NE - No Exposure

NS - No Standard

NSC - No Skin Contact

NSOOC - No Skin or Oral Contact

ME - Minimize Exposure, E. Q. Hull, M.D.

OT - Odor Threshold

(5) Proposed Trial Limit.

(6) Hull/Montagna

(7) ACGIH TLV's

(8) Dr. T. A. Lincoln

(9) Dr. W. C. Kuryla, letter, 3/9/79

*(a) - NIOSH Criteria Document
(b) - NIOSH Alert
(c) - OSHA Permanent Standard
(d) - OSHA Emergency Temporary Standard

S. D. Conner/slh
3-5-80

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ACL Doc 16948 · Page 9 of 10
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cc: Ron Peterson - Ells. 12 - w/attach

UNION CARBIDE

INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS • P. O. BOX 8361, SOUTH CHARLESTON, WEST VIRGINIA 25303

To (Name) Mr. M. R. Huffman
Division 3005-2
Location TECHNICAL CENTER

Date January 23, 1980
Originating Dept. Medical/Toxicology

Copy to Dr. W. C. Kuryla - 511
Mr. W. E. Whitehurst - 511

Subject

Dear Mr. Huffman:

Attached is a list of all the substances for which I could find C/P standards or guidelines. I have also included the ACGIH and NIOSH or OSHA standards for each when possible. The column at the far right indicates if a difference exists between the C/P standard and the ACGIH standard for each substance as you requested.

I hope this list will be helpful to you.

Sincerely,

Shirley D. Conner

Shirley D. Conner

SDC/ap

Attachment

BRB 0454