cc: R/D Technology Managers

① AJP
② DBS
③ DRD
④ LEM
⑤ PDS

UNION CARBIDE

INTERNAL CORRESPONDENCE

PLAINTIFF'S EXHIBIT
UC-3718

CHEMICALS AND PLASTICS

270 PARK AVENUE, NEW YORK, N.Y. 10017

To (Name) Operations Managers ✓
Division Market Area Managers
Location Plant Managers ✓
Floor Number R&D Directors
Engineering Directors
Copy to Distribution Directors ✓

CC: Attached Distribution List

Date January 22, 1979

Originator's Dept. SHARE

Floor Number 21

Telephone Number W. C. KURYLA

Subject Updated C&P List of Potential Carcinogens

RECEIVED
JAN 30 1979

Attached is the up-to-date list of substances of interest to C&P which we have determined should be regarded as potential carcinogens and therefore handled accordingly. This replaces the previous list issued with the letter dated July 18, 1978. Two have been added to the previous list. These are:

- Di-sec-butoxyacetophenone
- Methylene Dianiline

Permissible exposure limits and other information regarding these substances are contained in a separate detail document which will be sent to all Industrial Hygiene and Medical Departments, Environmental Protection and Occupational Health Coordinators, Technology Managers, and other appropriate managers for all locations and functions. Others with a need to know may obtain a copy by contacting Dr. W. C. Kuryla, Technology Manager-Occupational Health at the South Charleston Technical Center.

E Q Hull

E. Q. Hull, M.D.
Medical Director
Chemicals and Plastics

R. Van Mynen

R. Van Mynen
SHARE
Operations Manager
Chemicals and Plastics

EQH/RVM/mcc
Attachment

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C&P OCCUPATIONAL HEALTH TEAM

LISTING OF POTENTIAL CARCINOGENS

January 1, 1979

2-Acetylaminofluorene

Acrylonitrile (a) (b)

4-Aminodiphenyl

Asbestos (a) (b)

Benzene (a) (b)

Benzidine

Benzidine-Derived Dyes

Bis-2-chloroethyl ether (Dichloroethyl Ether: CHLOREX) (a)

Bis-2-chloroethyl-2-naphthylamine

Bis-chloromethyl ether

Carbon tetrachloride (a)

Chloroform (a)

Chloroprene

Chromates of Lead & Zinc

Chromium-6 Carcinogenic Compounds (including bis-Triphenyl Silyl Chromate) (a)

Di-sec-butoxyacetophenone (a)

3,3'-Dichlorobenzidine (and salts)

[redacted]

Diisopropyl sulfate (b)

Dimethyl sulfate

Ethylene Thiourea

4-Dimethylaminoazobenzene

1,4-Dioxane (a)

Epichlorohydrin (a)

Epoxy Resin ERL 2774 (a) (Diglycidyl Ether of Bisphenol A)

Epoxy Resin ERL 4205 (a) (Bis (2,3-Epoxycyclopentyl) Ether)

Epoxy Resin ERL 4206 (Vinylcyclohexene dioxide) (a)

Epoxy Resin ERL 4234 3-(3',4'-Epoxycyclohexyl) 8,9-epoxy-2,4-dioxaspiro (5,5-undecane) (a)

Ethylene dibromide

Ethylene dichloride (a)

Ethyleneimine (Aziridine) (b)

Methylene Dianiline

Methyl chloromethyl ether

α-Naphthylamine (b)

β-Naphthylamine

Neopentyl glycol diacrylate (a)

[redacted]

4-Nitrodiphenyl

2-Nitropropane

Nitrosoamines (b)

N-Nitrosodimethylamine (b)

Perchloroethylene (a) (Tetrachloroethylene)

Polychlorinated Biphenyls (b)

Polycyclic Aromatic Hydrocarbons (a) (b) (Fuel Oil Residues; Quench Oil, pitches; tars, Dripolenes A, B, and C. Resin B Condensates)

β-Propiolactone

Toluene-2,4-diamine (a)

Trichloroethylene (a)

Vinyl Chloride (a)

(a) C&P Product, Raw Material, or Process Intermediates

(b) Possible Contaminant in C&P products or operations

W. C. Kuryla:gc

January 3, 1979

[redacted]

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Union Carbide trial exhibit UC-3718: E. Q. Hull and R. Van Mynen to Operations and Other Managers Transmitting...
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C/P OCCUPATIONAL HEALTH TEAM

LISTING OF POTENTIAL CARCINOGENS

SUBSTANCE	CATEGORIES*	EXPOSURE LIMITS		
		ACGIH TLV	NIOSH PROPOSAL OR OSHA STANDARD**	C/P STANDARD OR GUIDELINE
2-Acetylaminofluorene	CX	---	NE (c)	NE; cf Regulation 29 CFR 1910.1014
Acrylonitrile***	A	NE	2 ppm (c)	2 ppm cf Regulation 29 CFR 1910.1045
4-Aminodiphenyl	AX	NE	NE (c)	NE; cf Regulation 29 CFR 1910.1011
Asbestos***	AX	5 fibers/cc > 5 μm long	2 fibers/cc > 5 μm long (c)	2 fibers/cc > 5 μm long cf Regulation 29 CFR 1910.1001
Benzene***	B	10 ppm	10 ppm	1 ppm; NSOOC (Hull/Montagna, 10/23/78) cf Regulation 29 CFR 1910.1028
Benzidine	AX	NE	NE (c)	NE; cf Regulation 29 CFR 1910.1010
Benzidine-Derived Dyes	C	---	---	NE (Hull, 4/12/78)
Bis-2-chloroethyl ether (Dichloroethyl Ether: CHLOREX)***	C	5 ppm	---	0.1 ppm (Hull, 3/75)

*
A = Known Human Carcinogen
B = Suspected Human Carcinogen
C = Experimental (Animal) Carcinogen
AX = Known Human Carcinogen - Regulated by Government
BX = Suspected Human Carcinogen - Regulated by Government
CX = Experimental (Animal) Carcinogen - Regulated by Government

WCK/1-3-79

***
C and P Product, Raw Material or Process Intermediate

**
a = NIOSH Criteria Document
b = NIOSH Alert
c = OSHA Permanent Standard
d = OSHA Emergency Temporary Standard

**** Possible contaminant in C and P products or processes

NSOOC = No skin or oral contact
NE = No exposure or contact by any route

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Additional Distribution

C. R. Allenbach	Niag. Falls (Metals
R. C. Andrews	322 (H&A)
L. M. Baker	19
B. Ballantyne	511
F. D. Bess	511
N. E. Bolton	4
J. B. Browning	22
T. J. Burke	781 (BP)
T. W. Carmody	22
C. P. Carpenter	Mellon
R. J. Conkling	323 (Linde)
L. A. Crisorio	21
J. M. Cwikla	358 (Film)
C. U. Dernehl	4
A. A. D'Onofrio	29
J. M. Fallon	511
J. A. Fitzgerald	Jacksonvl. (APD)
R. L. Foster	511
N. W. Gaines	511
W. F. Gorham	312 (98)
D. E. Gould	312 (Smvl.)
R. E. Graebert	511
R. A. Hardison	Parma (CPD)
H. L. Haynes	22
D. L. Heywood	21
E. R. Homan	Mellon
J. C. Hovious	511
R. A. Howard	44 (Elec.)
E. Q. Hull	411
R. F. Jensen	323 (Linde)
J. B. Johnson	511
R. G. Jordan	Oak Ridge (Nuc.)
R. T. Kramer	511
W. C. Kuryla	511
T. A. Lincoln	22
M. G. Manetti	45
J. D. Martin	510
O. P. Mukheja	440 (Toronto)
R. E. Peele	511
B. G. Perry	21
E. A. Persall	250 (Metals)
T. P. Raby	312 (51)
R. R. Rankin	515
J. A. Ring	19
C. D. Schmidt	29
T. N. Tackett	10
A. G. Voress	21
G. W. Wainwright	1200 (Geneva)
G. A. Webb	Mellon
C. S. Weil	Mellon
W. E. Whitehurst	511
J. W. Whittelesey	46
R. C. Wise	21
V. A. Yarborough	44 (Devel.)
R. L. Yelton	29

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Chemicals & Plastics
R&D Department

W. C. Kuryla
February 1, 1979

TECHNOLOGY MANAGERS:

J. I. Apse, 312
J. R. Barber, 525
D. C. Best, 511
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G. L. Brode, 312
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