

DATE September 21, 1979
SUBJECT Styrene
REFERENCE Memo 9/20/79 RHS to JLH
TO R. H. Schlattman - E2SA

cc W. D. Carpenter
B. W. Eley
T. F. Evans
J. T. Garrett
T. M. Helscher
P. H. Hobson
R. W. Kienker
W. B. Papageorge

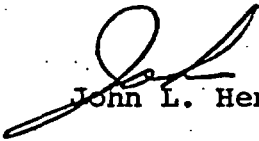
PLAINTIFF'S EXHIBIT

MON-2587

At the June AIHA/ACGIH conference, the TLV committee issued its 1979 list of "Notice of Intended Changes" which included styrene. The committee has recommended that the TWA₈ limit be lowered to 50 ppm and the STEL lowered to 100 ppm. I have attached a copy of the preliminary issue received at that conference for your review. ATTACHE

As a result of this notice, I contacted William Kelly, Executive Secretary of ACGIH, concerning the documentation supporting the intended TLV change. Bill mentioned the fact that the reason for "Notice of Intended Changes" is to arouse concern and, hopefully, spur comments supporting or refuting the proposed change. After two years, if no evidence is found that questions the appropriateness of the proposed changes, the value will be reconsidered for the "Adopted" list. Our comments and data regarding the toxicity and human experience on styrene are welcomed.

Bill Kelley had promised to send me a copy of the documentation as soon as it became available. I talked with Bill after receiving your memo 9/20/79 and he will forward immediately what information he has at present. As soon as I receive the documentation supporting lowering of the TLV, I will pass it on.


John L. Henshaw

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REPORT OF CHEMICAL AGENTS TLV COMMITTEE

MAY, 1979

The report of the committee is as follows:

NOTICE OF INTENDED CHANGES

FOR 1979

ADDITIONS

	<u>TWA</u>	<u>STEL</u>
Acrylic acid	10 ppm	
Chrysene	A2	
Diethyl ketone	200 ppm	
Dipropyl ketone	50 ppm	
2-Isopropoxyethanol	25 ppm	75 ppm
Methacrylic acid	20 ppm	
Methyl isopropyl ketone	200 ppm	
Pentafluorochloroethane	1000 ppm	
Platinum metal	1 mg/m ³	
Trimellitic anhydride	0.005 ppm	

A2 = Suspect
Human Carcinogen
w/ No Exposure
Recommended

REVISIONS

	<u>FROM</u>	<u>TO</u>	<u>STEL</u>
	<u>TWA</u>	<u>TWA</u>	
Acetone	1000 ppm	750 ppm	1000 ppm
Butane	600 ppm	800 ppm	
2-Butoxyethanol-Skin	50 ppm	25 ppm	75 ppm
sec-Butyl alcohol	150 ppm	100 ppm	150 ppm
Butyl glycidyl ether	50 ppm	25 ppm	
Carbon tetrachloride-Skin	10 ppm	5 ppm; A2	20 ppm
Carbonyl fluoride	5 ppm	2 ppm	5 ppm
1-Chloro-1-nitropropane	20 ppm	2 ppm	
Cyclohexanone	50 ppm	25 ppm	100 ppm
Cyclopentane	300 ppm	600 ppm	900 ppm
1,1-Dichloronitroethane	10 ppm	2 ppm	10 ppm
Diethylamine	25 ppm	10 ppm	25 ppm
Diglycidyl ether	0.5 ppm	0.1 ppm	
Dioxane-Skin	50 ppm	25 ppm	100 ppm

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<u>REVISIONS (con't)</u>	<u>FROM</u>	<u>TO</u>	
	<u>TWA</u>	<u>TWA</u>	<u>STEL</u>
2-Ethoxyethanol-Skin	100 ppm	50 ppm	100 ppm
2-Ethoxyethyl acetate-Skin	100 ppm	50 ppm	100 ppm
Ethyl acrylate-Skin	25 ppm	5 ppm	25 ppm
Ethylene glycol, vapor	100 ppm	C 50 ppm	C = Ceiling
Ethylene glycol dinitrate	0.2 ppm	0.02 ppm	
Ethylene oxide	50 ppm	10 ppm	
Furfural-Skin	5 ppm	1 ppm	
Glycidol	50 ppm	25 ppm	100 ppm
Hexane (n-hexane)	100 ppm	25 ppm	100 ppm
(other Isomers)	100 ppm	? (500) ppm	
Hexone (Methyl isobutyl Ketone)-Skin	100 ppm	50 ppm	75 ppm
Mesityl oxide	25 ppm	15 ppm	25 ppm
Methyl n-amyl ketone	100 ppm	50 ppm	100 ppm
Methyl bromide-Skin	15 ppm	5 ppm	15 ppm
Methyl chloride	100 ppm	50 ppm	100 ppm
Methyl iodide-Skin	5 ppm	2 ppm; A2	5 ppm
Methyl silicate	5 ppm	1 ppm	5 ppm
alpha-Methyl styrene	100 ppm	50 ppm	100 ppm
Nitrogen dioxide	5 ppm	3 ppm	5 ppm
1-Nitropropane	25 ppm	15 ppm	25 ppm
Phenyl ether-diphenyl	1 ppm	0.5 ppm	2 ppm
beta-Propiolactone	A2	0.5 ppm; A2	1 ppm
Propylene oxide	100 ppm	20 ppm	
Styrene	100 ppm	50 ppm	100 ppm
Toluene-2, 4-diisocyanate (TDI)	C 0.002 ppm	C 0.005	
Tributyl phosphate	5 mg/m ³	0.2 ppm 2.5 mg/m ³	0.4 ppm 5 mg/m ³
Trichloroethylene	100 ppm	50 ppm	75 ppm
Vanadium pentoxide, dust	0.5 mg/m ³	0.05 mg/m ³	
Vinyl toluene	100 ppm	50 ppm	100 ppm
Wood dust, hard wood as in furniture making	5 mg/m ³	1 mg/m ³	

A2 SUSPECT

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CHANGE IN LISTING

Chromium metal	0.5 mg/m ³
Chromium (II) compounds	0.5 mg/m ³
Chromium (III) Compounds	0.5 mg/m ³
Chromium (VI) compounds	
Water soluble Cr VI compounds	0.05 mg/m ³
Certain water insoluble Cr VI compounds	0.05 mg/m ³ ; A1a
Silver, soluble compounds (as Ag)	0.01 mg/m ³

Formerly:
chromates
chromic acid
chromic, chromous
salts

TRANSFERS TO ADOPTED LIST

	<u>TWA</u>	<u>STEL</u>
Aluminum, metal and oxide	10 mg/m ³	20 mg/m ³
Aluminum pyro powders	5 mg/m ³	
Aluminum welding fumes	5 mg/m ³	
Aluminum, soluble salts	2 mg/m ³	
Aluminum, alkyls (NOC)	2 mg/m ³	
3-Amino 1,2,4-triazole	A2	
Benomyl	10 mg/m ³	15 mg/m ³
Bromacil	10 mg/m ³	20 mg/m ³
Ethyl silicate	10 ppm	30 ppm
Glutaraldehyde	C 0.2 ppm	
Manganese fume (as Mn)	1 mg/m ³	3 mg/m ³
Phenyl-beta-naphthylamine	A2	
VM & P Naphtha	300 ppm	400 ppm

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