



PPG Industries, Inc. One PPG Place Pittsburgh, Pennsylvania 15272 (412) 434-2585

J. C. Delgado
Manager of Industrial
Health and Hygiene
Environmental Affairs

28 July 1987

Dr. F. Blaine Hollinger
Professor of Medicine
Baylor College of Medicine
Texas Medical Center
Houston, Texas 77030

Dr. Hollinger:

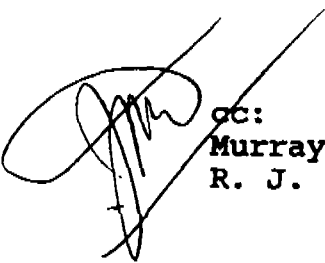
Enclosed is the information that you requested on the employees of our Lake Charles plant that are the subject of our enzyme study. I have also included a copy of our proposed medical surveillance procedure.

Please review the procedure, as we would like to have your evaluation of it. I will call your secretary to attempt to arrive at a time when I can discuss this with you by telephone.

We appreciate your being available to attend our meeting of August 4. I plan on meeting you at the airport and driving you to our office. I will also get you back to the airport so that you can make your flight to Washington, D. C. If I can be of further assistance to you in making your travel arrangements, please call.

Thank you,

J. C. Delgado, Jr.



cc:
Murray Davis / Dr. R. C. Looney
R. J. McCorquodale

SL 048611

INTER-OFFICE CORRESPONDENCE

Date: August 19, 1986

To: T. R. Casey

From: J. C. Delgado

E. Denman

J. H. Farrah

Location: 36 West

S. P. Hanna

K. E. Isakson

Subject: Current IPEL

L. A. Kuryla

Listing

H. Neeley/R. Olmstead

E. J. Rish

J. C. Shepherd/J. M. Davis

W. B. Treybig

G. H. Van Horn/R. Williams

B. S. Warren

Attached is the most current update to the IPEL listing. As in the past, this contains all of PPG's generated IPELs and frequently used ACGIH TLVs and OSHA PELs.

Remove your old IPEL listings from your Health/Hygiene Manual and insert this new listing. In addition, if anyone has any additional needs in the PEL area, let me know.

If there are any questions, please call.



J. C. Delgado

/yra

Attachment

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SL 048612

08/19/86

INTERNAL PERMISSIBLE EXPOSURE LIMITS (IPELS)

CHEMICAL NAME	CODE	TWA	SOURCE	STEL	SOURCE	UNITS	NOTE
TETRAHYDROFURAN	THF	200 (TLV)		250 (TLV)		PPM	
TIN-INORG.CMPS.-NOT OXIDE	TIN-IN	2 (TLV)		4 (TLV)		MCM	
TITANIUM DIOXIDE	TIO2	10 (TLV)		20 (TLV)		MCM	
TOLUENE	TOLUEN	100 (TLV)		150 (TLV)		PPM	A
TOTAL OXIDANTS AS OZONE	TOT-OX	0.1 (IPEL)		0.3 (IPEL)		PPM	
TRANS-1,2DICHLOROETHYLENE	TRANS	10 (IPEL)		25 (IPEL)		PPM	
TRICHLOROETHYLENE	TRI	50 (TLV)		200 (TLV)		PPM	A
TRIOORTHOCRESYL PHOSPHATE	TOCP	0.1 (TLV)		0.3 (TLV)		MCM	
TURPENTINE	TURPEN	100 (TLV)		150 (TLV)		PPM	
UNSYM-TETRACHLOROETHANE	UNSYM	5 (IPEL)		10 (IPEL)		PPM	
VINYL ACETATE	V-ACET	10 (TLV)		20 (TLV)		PPM	
VINYL BROMIDE	VBR	1 (IPEL)		5 (IPEL)		PPM	
VINYL CHLORIDE	VCM	1 (OSHA)		5 (OSHA)		PPM	
VINYL TOLUENE	VTOL	50 (TLV)		100 (TLV)		PPM	
VINYLDIENE CHLORIDE	VDC	2.5 (IPEL)		10 (IPEL)		PPM	
WELDING FUME-TOTAL	WELDFU	5 (TLV)		10 (IPEL)		MCM	
X-RADIATION	X-RAYS	VAR	(TLV)	VAR	(TLV)	OTH	
XYLENE	XYLENE	100 (TLV)		150 (TLV)		PPM	
ZINC CHLORIDE FUME	ZNCLFU	1 (TLV)		2 (TLV)		MCM	
ZINC OXIDE FUME	ZNOF	5 (TLV)		10 (TLV)		MCM	
ZINC STEARATE	ZNSTER	10 (TLV)		10 (TLV)		MCM	
1,1 DICHLOROETHANE	DCE	10 (IPEL)		25 (IPEL)		PPM	
S 1,1 DIMETHYLHYDRAZINE	DMEHYZ	0.5 (TLV)		1 (TLV)		PPM	
S 1,1,2 TRICHLOROETHANE	TCE	10 (TLV)		20 (TLV)		PPM	
1,2-BUTYLENE OXIDE	BLM	5 (IPEL)		10 (IPEL)		PPM	
1,2,3-TRICHLOROBENZENE	123TCB	N/A	()	N/A	()	PPM	
1,2,4-TRICHLOROBENZENE	TCB	N/A	()	5 (TLV)		PPM	
1,3-BUTADIENE	BUDIEN	250 (IPEL)		375 (IPEL)		PPM	
1,3-DIOXOLANE	DOL	25 (IPEL)		50 (IPEL)		PPM	
C 2-NITROPROPANE	2-NPRO	N/A	()	25 (TLV)		PPM	
2,6 DITERTBUTYL-P-CRESOL	DTBPC	10 (TLV)		20 (TLV)		MCM	
Anthophyllite	ANT	0.2 (OSHA)		()		FML	
Actinolite	ACT	0.2 (OSHA)		()		FML	
Tremolite	TRE	0.2 (OSHA)		()		FML	
Biphenyl	Biphen	0.2 (TLV)		0.6 (TLV)		PPM	
Cyclohexyl Amine	Cyhxam	10 (TLV)		()		PPM	
Diethanolamine	Dietam	3 (TLV)		()		PPM	
Diethylenetriamine	Detram	1 (TLV)		()		PPM	
Ethanolamine	Ethamn	3 (TLV)		6 (TLV)		PPM	
Formaldehyde	Formal	1 (TLV)		2 (TLV)		PPM	

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INTERNAL PERMISSIBLE EXPOSURE LIMITS (IPELS)

CHEMICAL NAME	CODE	TWA	SOURCE	STEL	SOURCE	UNITS	NOTE
N-PROPYL CHLOROFORMATE	NPCF	1 (IPEL)		5 (IPEL)		PPM	
NICKEL METAL	NICKEL	1 (TLV)		N/A	()	MCM	
NITRIC ACID	HNO3	2 (TLV)		4 (TLV)		PPM	
NITRIC OXIDE	NO	25 (TLV)		35 (TLV)		PPM	
C NITROGEN DIOXIDE	NO2	3 (TLV)		5 (OSHA)		PPM	B
NITROMETHANE	NITMET	100 (TLV)		150 (TLV)		PPM	
NOISE	NOISE	90 (OSHA)		N/A	()	OTH	
NORM.BUTYL ACETATE	NBA	150 (TLV)		200 (TLV)		PPM	
NUISANCE DUST	DUSTNU	10 (TLV)		N/A	()	MCM	
NUISANCE DUST-RESPIRABLE	DUSTNR	5 (TLV)		N/A	()	MCM	
C ORTHO-DICHLOROBENZENE	ODCB	N/A	()	50 (TLV)		PPM	
OXALIC ACID	OXACD	1 (TLV)		2 (TLV)		MCM	
OZONE	O3	0.1 (TLV)		0.3 (TLV)		PPM	
PALLADIUM	PALLAD	0.1 (IPEL)		0.3 (IPEL)		MCM	
PARA-DICHLOROBENZENE	PDCB	75 (TLV)		110 (IPEL)		PPM	
S PENTACHLOROPHENOL	PCP	0.5 (TLV)		1.5 (TLV)		MCM	
PERCHLOROETHYLENE	PER	50 (TLV)		100 (IPEL)		PPM	A
S PHENOL	PHENOL	5 (TLV)		10 (TLV)		PPM	
PHOSGENE	PHOSGE	0.1 (TLV)		0.3 (IPEL)		PPM	
PHOSPHORIC ACID	HPO3	1 (TLV)		3 (TLV)		MCM	
PLATINUM	PT	1 (TLV)		N/A	()	MCM	
S POLYCHLOR BIPHENYLS 42%CL	PCB-42	1 (TLV)		2 (TLV)		MCM	
S POLYCHLOR BIPHENYLS 54%CL	PCB-54	0.5 (TLV)		1 (TLV)		MCM	
C POTASSIUM HYDROXIDE	KOH	N/A	()	2 (TLV)		MCM	
PPG 1013	1013	N/A	()	N/A	()	UCH	
S PROPARGYL ALCOHOL	PRGOH	1 (TLV)		3 (TLV)		PPM	
PROPYLENE TRICHLORIDE	PTCL2	5 (IPEL)		10 (IPEL)		PPM	
PYRIDINE	PYRDIN	5 (TLV)		10 (TLV)		PPM	
RUTHENIUM	RUTH	N/A	()	N/A	()	MCM	
SEC-BUTYL ALCOHOL	BU2ALC	100 (TLV)		150 (TLV)		PPM	
SEC-BUTYL CHLOROFORMATE	SBCF	N/A	()	N/A	()	PPM	
SILICON CARBIDE	SIC	10 (TLV)		20 (TLV)		MCM	
SILVER METAL SOLUBLE CMPD	AG	0.01 (OSHA)		N/A	()	MCM	
C SODIUM AZIDE	NAN3	N/A	()	0.1 (TLV)		PPM	
C SODIUM HYDROXIDE	NAOH	N/A	()	2 (TLV)		MCM	
STODDARD SOLVENT	STDSOL	100 (TLV)		200 (TLV)		PPM	
STYRENE MONOMER	STYREN	50 (TLV)		100 (TLV)		PPM	
SUCROSE	SUCROS	10 (TLV)		20 (TLV)		MCM	
SULFUR CHLORIDE	S2CL2	1 (TLV)		3 (TLV)		PPM	
SULFUR DIOXIDE	SO2	2 (TLV)		5 (TLV)		PPM	
SULFURIC ACID	H2SO4	1 (TLV)		2 (IPEL)		MCM	
S SYM-TETRACHLOROETHANE	SYM	1 (TLV)		5 (TLV)		PPM	
SYN PRECIP SILICA-RESP	SPS-R	5 (IPEL)		N/A	()	MCM	
SYN PRECIP SILICA-TOTAL	AM-SIL	10 (TLV)		N/A	()	MCM	
TANTALUM	TA	5 (TLV)		10 (TLV)		MCM	
C TERPHENYLS	TERPH	N/A	()	0.5 (TLV)		PPM	
TERT-BUTYL ALCOHOL	BUOH-T	100 (TLV)		150 (TLV)		PPM	

INTERNAL PERMISSIBLE EXPOSURE LIMITS (IPELS)

CHEMICAL NAME	CODE	TWA	SOURCE	STEL	SOURCE	UNITS	NOTE
FLUORIDE AS F	FLORID	2.5 (TLV)		5 (TLV)		MCM	
C FREON	FREON	N/A	()	1000 (TLV)		PPM	
S FURFURYL ALCOHOL	FURALC	10 (TLV)		15 (TLV)		PPM	
GLYCIDOL (EPOXYPROPANOL)	GLYCDL	5 (IPEL)		10 (IPEL)		PPM	
GRAPHITE	GRAPHY	10 (TLV)		N/A	()	MCM	
HEXACHLOROETHANE	HEX	10 (TLV)		3 (TLV)		PPM	
C HYDROGEN CHLORIDE (ACID)	HCL	N/A	()	5 (TLV)		PPM	
HYDROGEN FLUORIDE	HF	3 (TLV)		6 (TLV)		PPM	
HYDROGEN PEROXIDE	H2O2	1 (TLV)		2 (TLV)		PPM	
HYDROGEN SULFIDE	H2S	10 (TLV)		15 (TLV)		PPM	A
HYDROQUINONE	HQ	2 (TLV)		4 (TLV)		MCM	
C IODINE	I2	N/A	()	0.1 (TLV)		PPM	
IRON OXIDE FUME	FEQXFU	5 (TLV)		10 (TLV)		MCM	
ISOBUTANOL	IBL	50 (TLV)		75 (TLV)		PPM	
ISOBUTYLCHLOROFORMATE	IBCF	N/A	()	N/A	()	PPM	
C ISOPHORONE	ISOPHO	N/A	()	5 (TLV)		PPM	
ISOPROPYL ACETATE	IPRACT	250 (TLV)		310 (TLV)		PPM	
ISOPROPYL ALCOHOL	ISOALC	400 (TLV)		500 (TLV)		PPM	
ISOPROPYL CARBANILATE	IPC	10 (IPEL)		25 (IPEL)		PPM	
ISOPROPYL CHLOROFORMATE	IPCF	1 (IPEL)		5 (IPEL)		PPM	
ISOPROPYL PERCARBONATE	IPP	0.1 (IPEL)		0.3 (IPEL)		PPM	
S LEAD-ORGANIC	PBORG	0.075 (OSHA)		0.3 (IPEL)		MCM	
LEAD-PARTICULATE	PBPART	0.05 (OSHA)		N/A	()	MCM	
LIQUIFIED PETROLEUM GAS	LPG	1000 (TLV)		1250 (TLV)		PPM	
M-DICHLOROBENZENE	MDCB	N/A	()	N/A	()	PPM	
S M-ETHYLGLYCOL M-METHYL ET	MEGE	2 (IPEL)		5 (IPEL)		PPM	
MANGANESE FUME	MANGFU	1 (TLV)		3 (TLV)		MCM	
S MERCURY	HG	0.05 (TLV)		N/A	()	MCM	
S METHANOL	METHOL	200 (TLV)		250 (TLV)		PPM	
C METHBISCYCLOHEXISOCYANATE	HYLENE	N/A	()	0.01 (TLV)		PPM	
METHYL CHLORIDE	MECL	50 (TLV)		100 (TLV)		PPM	A
METHYL CHLOROFORM	MC	350 (TLV)		450 (TLV)		PPM	
METHYL CHLOROFORMATE	MCF	1 (IPEL)		2 (IPEL)		PPM	
METHYL CYCLOHEXANE	MECYHX	400 (TLV)		500 (TLV)		PPM	
METHYL ETHYL KETONE	MEK	200 (TLV)		250 (IPEL)		PPM	
METHYL ISOBUTYL KETONE	MIBK	50 (TLV)		75 (TLV)		PPM	
S METHYL ISOCYANATE	MI	0.02 (TLV)		N/A	()	PPM	
C METHYL MERCAPTAN	MESH	0.5 (TLV)		10 (OSHA)		PPM	B
S METHYLCYCLOPENTANE-D-MN-TRICBL	MMT-MN	0.1 (IPEL)		0.3 (IPEL)		PPM	
METHYLENE CHLORIDE	METHCL	100 (TLV)		500 (TLV)		PPM	A
MOLYBDENUM	MO	5 (TLV)		10 (TLV)		MCM	
MONO-CHLOROBENZENE	MCBN	75 (TLV)		150 (IPEL)		PPM	
MONOCHLOROACETYLENE	MCA	N/A	()	N/A	()	PPM	
S,C N-BUTANOL	N-BUOH	N/A	()	50 (TLV)		PPM	
N-HEPTANE	NHPTAN	400 (TLV)		500 (TLV)		PPM	
N-HEXANE	HX-N	50 (TLV)		125 (TLV)		PPM	
S N-PROPANOL	NPL	200 (TLV)		250 (TLV)		PPM	

INTERNAL PERMISSIBLE EXPOSURE LIMITS (IPELS)

CHEMICAL NAME	CODE	TWA	SOURCE	STEL	SOURCE	UNITS	NOTE
COAL DUST RESP QT 5% QUAR	COALRQ	VAR	(TLV)	N/A	()	MCM	C
COAL DUST RESPIRABLE	COAL-R	2	(TLV)	N/A	()	MCM	
COAL TAR PITCH VOL.-BZSOL	CTPV	0.2	(TLV)	0.6	(IPEL)	MCM	
COPPER DUST AND MISTS	CU-DM	1	(TLV)	2	(TLV)	MCM	
COPPER FUMES	CU-FUM	0.1	(OSHA)	0.3	(IPEL)	MCM	
S CRESOL	CRESOL	5	(TLV)	N/A	()	PPM	
CRYSTAL-SILICA QTZ.RESP.	SiO2-R	VAR	(TLV)	N/A	()	MCM	C
CRYSTAL-SILICA QTZ.TOTAL	SiO2-T	VAR	(TLV)	N/A	()	MCM	C
CYCLOHEXANE	CYHX	300	(TLV)	375	(TLV)	PPM	
CYCLOHEXANOL	CYHXX	50	(TLV)	75	(IPEL)	PPM	
CYCLOHEXANONE	CYLNON	25	(TLV)	100	(IPEL)	PPM	
CYCLOHEXENE	CYHXE	300	(TLV)	N/A	()	PPM	
CYCLOHEXENE OXIDE	CHO	10	(IPEL)	20	(IPEL)	PPM	
DI-N-PROPYL AMINE	DNPA	N/A	()	N/A	()	PPM	
DIALLYL CARBONATE	DAC	N/A	()	N/A	()	PPM	
DIBUTYL PHTHALATE	DBUPHT	5	(TLV)	10	(TLV)	MCM	
C DICHLOROACETYLENE	DCA	N/A	()	0.1	(TLV)	PPM	
DIETHYL SULFATE	DES	N/A	()	N/A	()	PPM	
DIETHYL GLYC. CHLORFORMATE	DECF	1	(IPEL)	5	(IPEL)	PPM	
DIETHYL DISULFIDE	DEDS	N/A	()	N/A	()	PPM	
DIETHYL N. GLYCO. M-METHYL-E	DEGE	25	(IPEL)	50	(IPEL)	PPM	
DIISOBUTYL KETONE	DIBK	25	(TLV)	N/A	()	PPM	
DIISOBUTYLAMINE	DIBA	N/A	()	N/A	()	PPM	
S DIISOPROPYLAMINE	DIPRNH	5	(TLV)	10	(IPEL)	PPM	
DIMETHOXYMETHANE	DMXME	1000	(TLV)	1250	(TLV)	PPM	
S DIMETHYLFORMAMIDE	DMFA	10	(TLV)	20	(TLV)	PPM	
DIMETHYL PHTHALATE	DMEPHT	5	(TLV)	10	(TLV)	MCM	
S DIOXANE	DIOXAN	25	(TLV)	100	(TLV)	PPM	
S ENDRIN	ENDRIN	0.1	(TLV)	0.3	(TLV)	MCM	
S EPICHLOROHYDRIN	EPI	2	(TLV)	5	(TLV)	PPM	
ETHYL ALCOHOL	ETOH	1000	(TLV)	N/A	()	PPM	
S ETHYL CELLOSOLVE	ECELL	5	(IPEL)	10	(IPEL)	PPM	
ETHYL CHLORIDE	EC	200	(IPEL)	375	(IPEL)	PPM	
ETHYL CHLOROFORMATE	ECF	2	(IPEL)	5	(IPEL)	PPM	
ETHYL CHLOROPROPIONATE	ECP	N/A	()	N/A	()	PPM	
ETHYL CHLOROTHIOFORMATE	ECTF	N/A	()	N/A	()	PPM	
ETHYL ETHER	ETHER	400	(TLV)	500	(TLV)	PPM	
ETHYL MERCAPTAN	ETSH	0.5	(TLV)	2	(TLV)	PPM	B
ETHYL PROPIONATE	ETPROP	N/A	()	N/A	()	PPM	
S ETHYLENE DIBROMIDE	EDB	0.3	(IPEL)	2.5	(IPEL)	PPM	A
ETHYLENE DICHLORIDE	EDC	5	(IPEL)	15	(TLV)	PPM	A
ETHYLENE GLYCOL PARTIC	EGP	10	(TLV)	20	(TLV)	MCM	
C ETHYLENE GLYCOL VAPOR	EGV	N/A	()	50	(TLV)	PPM	
ETHYLENE OXIDE	EO	1	(IPEL)	10	(IPEL)	PPM	
S ETHYLGLYCOL ETHYL ETH ACT	EGEEA	5	(IPEL)	10	(IPEL)	PPM	
ETHYLHEXYLCHLOROFORMATE	EHCFC	1	(IPEL)	5	(IPEL)	PPM	
ETHYLHEXYLPEROXYDICARBON.	EHPDC	1	(IPEL)	3	(IPEL)	PPM	

INTERNAL PERMISSIBLE EXPOSURE LIMITS (IPELS)

CHEMICAL NAME	CODE	TWA	SOURCE	STEL	SOURCE	UNITS	NOTE
ACETALDEHYDE	ACALD	100 (TLV)		150 (TLV)		PPM	
ACETIC ACID	ACETIC	10 (TLV)		15 (TLV)		PPM	
C ACETIC ANHYDRIDE	ACANH	N/A	()	5 (TLV)		PPM	
ACETONE	ACETON	750 (TLV)		1000 (TLV)		PPM	
S ACETONITRILE	ACCN	40 (TLV)		60 (TLV)		PPM	
ACROLEIN	ACRO	0.1 (TLV)		0.3 (TLV)		PPM	
S ACRYLONITRILE	AN	2 (OSHA)		10 (OSHA)		PPM	
S ALLYL ALCOHOL	AL-ALC	2 (TLV)		4 (TLV)		PPM	
ALLYL CHLOROFORMATE	ACF	N/A	()	N/A	()	PPM	
ALUMINUM METAL AND OXIDE	AL	10 (TLV)		20 (TLV)		MCM	
ALUMINUM SOLUBLE SALTS	ALSALT	2 (TLV)		N/A	()	MCM	
AMMONIA	NH3	25 (TLV)		35 (TLV)		PPM	
S ANILINE	ANILIN	2 (TLV)		5 (TLV)		PPM	
ANTIMONY OXIDE AS SB	SB2O3	0.5 (TLV)		0.75 (IPEL)		MCM	
ARSENIC	AS	0.01 (OSHA)		N/A	()	MCM	
ASBESTOS AMOSITE	ASBAMO	0.2 (TLV)		10 (OSHA)		FML	
ASBESTOS CHRYSOTILE	ASBCRY	0.2 (TLV)		10 (OSHA)		FML	
ASBESTOS CROCIDOLITE	ASBCRO	0.2 (TLV)		10 (OSHA)		FML	
ASPHALT FUMES (PETROLEUM)	ASFALT	5 (TLV)		10 (TLV)		MCM	
B-ETHOXY PROPIONITRILE	EPE	5 (IPEL)		10 (IPEL)		PPM	
BARIUM SOLUBLE	BA-SOL	0.5 (TLV)		N/A	()	MCM	
BENZENE	BENZ	10 (TLV)		25 (TLV)		PPM	A
BENZYL CHLORIDE	BENZCL	1 (TLV)		N/A	()	PPM	
BERYLLIUM	BE	0.002 (TLV)		VAR (OSHA)		MCM	
BIS-PHENOL A	BPHENA	N/A	()	N/A	()	MCM	
BORON TRICHLORIDE	BCL3	N/A	()	1 (IPEL)		PPM	
C BORON TRIFLUORIDE	BOTRIF	N/A	()	1 (TLV)		PPM	
BROMINE	BR2	0.1 (TLV)		0.3 (TLV)		PPM	
S BROMOFORM	CHBR3	0.5 (TLV)		N/A	()	PPM	
BUTANE	BUT-N	800 (TLV)		N/A	()	PPM	
S BUTYL CELLOSOLVE	BCELL	25 (TLV)		75 (TLV)		PPM	
CADMIUM Oxide Fume	CADDUS	0.05 (TLV)		0.2 (TLV)		MCM	A
C CADMIUM FUME	CADFUM	N/A	()	0.05 (TLV)		MCM	
CALCIUM CARBONATE	CACO3	10 (TLV)		20 (TLV)		MCM	
CALCIUM HYDROXIDE	CAOH2	5 (TLV)		N/A	()	MCM	
CALCIUM HYPOCHLORITE DUST	CAHYPO	N/A	()	2 (IPEL)		MCM	
S CARBON BISULFIDE	CS2	10 (TLV)		20 (IPEL)		PPM	A
CARBON BLACK	CARBLK	3.5 (TLV)		7 (TLV)		MCM	
CARBON DIOXIDE	CO2	5000 (TLV)		15000 (TLV)		PPM	
CARBON MONOXIDE	CO	50 (TLV)		400 (TLV)		PPM	
S CARBON TETRACHLOR	CCL4	5 (TLV)		20 (TLV)		PPM	A
C CHLORINE	CL2	N/A	()	1 (OSHA)		PPM	
C CHLOROACETALDEHYDE	CLAALD	N/A	()	1 (TLV)		PPM	
S CHLOROANILINE	CLANLM	2 (TLV)		5 (TLV)		PPM	
C CHLOROFORM	CHCL3	10 (TLV)		50 (OSHA)		PPM	B
CHLOROPROPHAM	CIPC	1 (IPEL)		3 (IPEL)		PPM	
CHROMIUM OXIDE VI	CRO3	0.05 (TLV)		N/A	()	MCM	
CIS-1,2-DICHLOROETHYLENE	CIS	10 (IPEL)		25 (IPEL)		PPM	