

I. SELECTION OF SUBSTANCES FOR REVIEW

A. Developing a list of substances for review.

1. Division staff will annually update a list of existing and new section 5155 airborne contaminant substances to be reviewed for possible inclusion or updating in Table AC-1 of Section 5155. The development of the list of substances to be considered will at a minimum include the following sources:

- a. New or revised occupational exposure limits (OELs) from nationally and internationally recognized professional associations and governmental agencies. Examples of OELs that will be considered include Threshold Limit Values (TLVs) of the American Conference of Governmental Industrial Hygienists (ACGIH), workplace environmental exposure limits (WEELs) of the American Industrial Hygiene Association (AIHA), recommended exposure limits of the National Institute of Occupational Safety and Health (NIOSH), along with OELs derived from reference exposure levels and Proposition 65 listings of the Office of Environmental Health Hazard Assessment (OEHHA) and the U.S. Environmental Protection Agency.
- b. Cal/OSHA "Form 9" requests and other internal recommendations for new or revised standards from Division, Standards Board and Appeals Board staff.
- c. Petition decisions granted by the Cal/OSHA Standards Board; and
- d. Other requests from the public or other governmental agencies such as the Department of Health Services and OEHHA.

Priority substances will be ranked for review based on the following considerations:

1. Evidence of a serious potential hazard not adequately addressed by existing regulations of the Division or other governmental agency.
2. A substantial change in the value of an OEL that could contribute to increased protection of workers if adhered to by employers.
3. The degree to which a substance is in widespread use in California or to which there are other indications of pervasive and potentially hazardous worker exposure to the substance.
4. The seriousness of the nature of the health hazard presented by the substance. For example, substances with apparent potential for cancer, reproductive, developmental, or sensitizing effects would generally receive a higher priority for consideration than substances where the major hazard potential is mild respiratory irritation
5. The potential for exposure in California (#3) in combination with the degree of hazard (#4). For example, a limited exposure to a highly toxic substance may be just as significant as widespread exposure to a less toxic substance

P1 list	PEL TLV	ratio	YEAR/SOURCE	EPA (M lbs)	EPA-CA	TRI	TRI-CA	CERS
benzophenone	NEW		HESIS					
sulfur dioxide	5 0.25S	20	2009					
turpentine, monoterpenes	100 20	5	2003					98
Priority 2 with PEL/TLV ≥ 10								
boron trifluoride	1 0.1	10	2016					
calcium silicate, nat occ as Woll.	10 1	10	2016					
carbaryl	5 0.5	10	2008					932
dichlorvos (DDVP)	1 0.1	10	2002					
ethyleneimine	0.5 0.05	10	2009	10-50				
furfural	2 0.2	10	2017	no data				30
malathion	10 1	10	2003					
	PEL TLV	ratio	YEAR/SOURCE	EPA (M lbs)	EPA-CA	TRI	TRI-CA	CERS

maleic anhydride	0.1 0.01	10	2011	500-750		53	2	
methyl isopropyl ketone	200 20	10	2011	with held				
methyl parathion	0.2 0.02	10	2009					
portland cement (<1% silica)	10 1	10	2010					
propyleneimine	2 0.2	10	2009; OEHHA	0.1 - 0.5				
thiobis, 4,4'- (6-tert-butyl-m-cresol)	10 1	10	2011					
warfarin	0.1 0.01	10	2016					730 (CVS)
temephos	10 1	10	2005					
clopidol	10 3	10	2013					
methomyl	2.5 0.2	12.5	2014					
trivalent, as CR (III)	0.05 0.003	17	2018					
thiram	1 0.05	20	2008					
hexavalent, as CR(VI)	0.005 0.0002	25	2018					
chromite ore processing	0.005 0.0002	25	2018					
naled	3 0.1	30	2002					
furfuryl alcohol	10 0.2	50	2017					
methoxyethanol acetate, 2-	5 0.1	50	2006; NIOSH	no data				
methoxyethanol, 2-	5 0.1	50	2006; NIOSH	1-10				
phenylhydrazine (and salts)	5 0.1	50	1988; OEHHA					
lead chromate	0.02 0.0002	100	2018					
chromyl chloride as Cr(VI)	0.025 0.0001	250	2018					
phthalic anhydride	1 0.002	500	2017	500-750	50	123	6	

Priority 2: NEW - TLV but no PEL; OEHHA, HESIS recommendation; other

antimony trioxide production	0.5 ALARA	ALARA	1979					
Tetrafluoroethylene		NEW	2001; HESIS	withheld	0	7	0	
methanol	200 200	NEW	2009; HESIS					
strontium chromate	0.0005	NEW	2018	1-10M		-	-	
butane (all isomers)	800 1000 STE	STEL	2013					
acetamide		NEW	2017; OEHHA	0	-	8	0	
dioxolane,1,3		NEW	2002	10-50M	0	-	-	
tert-amyl methyl ether		NEW	2002	500-750	0	-	-	62
kerosene jet fuel, total HC vapor		NEW	2003					
dodecyl mercaptan		NEW	2004	10-50M	0			
hexahydrophthalic anhydride		NEW	2004	10-50M	0			25
natural rubber latex, as total protein		NEW	2004					
perfluorobutyl ethylene		NEW	2004	0	0	0	0	
monochloroacetic acid		NEW	2006	50-100		20	2	103
alachlor		NEW	2007					
mineral oil, mildly refined		NEW	2010					
allyl bromide		NEW	2011	0				
carbonyl sulfide		NEW	2011	1-10M		134	13	
phthalidionitrile, 0-		NEW	2011	withheld				
piperazine and salts, as piperazine		NEW	2011	NA				
diethylene glycol monobutyl ether		NEW	2012	100-250	25	-	-	
diethylhydroxylamine, n,n-		NEW	2012	1-10M	11	-	-	
cyanogen bromide		NEW	2013	NA				
boron trichloride		NEW	2016	0.5 - 1	2	8	0	
	PEL TLV	ratio	YEAR/SOURCE	EPA (M lbs)	EPA-CA	TRI	TRI-CA	CERS

simazine	NEW	2016					251
cadusafos	NEW	2017					
folpet	NEW	2017					
methylacetylene-propdiene mixture	NEW	2017					
dimethyl-p-toluidine, n, n-	NEW	HESIS	0.1 -0.5				
myrcene, beta	NEW	HESIS	100-250				
propylene glycol mono-t-butyl ether	NEW	HESIS	no data				
anthraquinone	NEW	HESIS	10-50M	1	-	-	29
aldicarb	NEW	no TLV					
benzaldehyde	NEW	no TLV	10-50M	0	-	-	444
butyraldehyde	NEW	no TLV	1 - 5B	0	-	-	
chlorinated paraffins	NEW	no TLV					
decamethylcyclopentasiloxane (D5)	NEW	no TLV	1-10M	0			
nitrilotriacetic acid	NEW	no TLV	withheld	0	5	0	
thiourea	NEW	no TLV	1-10M	0	14	0	2
nitro-o-toluidine, 5-	NEW	2007	withheld	0	2	0	
natural rubber latex, as inhbl allergenic protein	NEW	2008	withheld				
zinc chromate	NEW	2018					
toluene diisocyanate, 2-4 and 2-0.005 0.001	5	2016					

Priority 2* - Special Committee

arsine	0.05 0.005	10	2007				
beryllium	0.0002 0.000	4	2014;				
bisphenol A (BPA)	NEW no tlv	NEW	HESIS				134
bromopropane, 1-	5 0.1	50	2014; HESIS				
butyl benzyl phthalate	NEW No TLV	NEW	no TLV; OEHHA				30
carbon nanotubes	15 0.001	15000	2013; HESIS				
di(2-ethylhexyl)phthalate (DEHF)	5 5	1	1998; OEHHA				
diacetyl	0.012 0.01	1	2012; HESIS				
dibutyl phthalate	5 5	1	1990; OEHHA				
diesel engine exhaust	NEW	NEW	no TLV				
Diisononyl phthalate (DINP)	NEW	NEW	HESIS				
di-n-hexyl phthalate (DnHP)	NEW	NEW	HESIS				
ethyl isocyanate	NEW 0.02/0.06		2013				
formaldehyde	0.75 0.1	8	2017				3888
gallium arsenide	see 5214 0.003		2005				
isocyanates (TRIG &/or ind sus)	NEW 0.017	NEW	no TLV				
methyl isocyanate	NEW 0.02	NEW	2013				
pentanedione, 2,3-	0.012 0.0093	1	no TLV; NIOSH; HESIS				
pentanedione, 2,4-	NEW 25	NEW	2010; HESIS				
phenyl isocyanate	NEW 0.005	NEW	2013				
silica (crystalline quartz & cristo)	0.05 0.025	2	2006				
styrene	50 20	3	2001; OEHHA				
titanium dioxide, ultrafine (<10(10 0.3		33	2011; HESIS				81
toluene diisocyanate, 2-4 and 2-0.005 0.001		5	2016				

2019 ACGIH Adoptions	PEL TLV	ratio	YEAR/SOURCE	EPA (M lbs)	EPA-CA	TRI	TRI-CA	CERS
cobalt and inorganic compound	0.02 0.02	1	2019					
cyanazine	0.1 -	NEW	2019					
cyclopentadiene	0.5 75	150	2019					
dicyclopentadiene	0.5 5	10	2019					
dimethylphenol	1 -	NEW	2019					
flourine	0.1 0.1	1	2019					
indium tin oxidw	0.0001 -	NEW	2019					
methyltetrahydrophthalate anh	0.07 -	NEW	2019					
mehtyl vinyl ketone	0.01 0.05	5	2019					
monomethylformamide	1 -	NEW	2019					
o-phthaladehyde	0.1 -	NEW	2019					
propylene glycol ethyl ether	50 -	NEW	2019					
Sulfoxaflor	0.1 -	NEW	2019					
tetramethyl succinonitrile	0.5 0.5	1	2019					
thiacloprid	0.2 -	NEW	2019					
Tin and inorganic tin excluding t 2	2 2	1	2019					

2019 ACGIH Adoptions - IVF Note

Chlordane	0.5 0.5	1	2019					
o-Chlorobenzylidene malononit	0.05 0.05	1	2019					
Dinitrobenzene (all (isomers)	0.15 0.15	1	2019					
4,6-Dinitro-o-cresol; 2-methyl-4	0.2 0.2	1	2019					
EPN; o-ethyl o-(p-nitrophenyl) p	0.1 0.1	1	2019					
isobutyl nitrite	NEW	NEW	2019					
5-Nitro-o-toluidine	1 -	NEW	2019					
Nitrapyrin	10 10	1	2019					
4,4'-Methylene bis(2-chloroanili	1 NEW	NEW	2019					
Pentachloronaphthalene	0.5 0.5	1	2019					
Sulfometuron methyl	5 3.5	0.7	2019					
Temephos	1 10	10	2019					
1,1,2,2-tetrabromomethane	0.1 1	10	2019					
2,4,6-Trinitrotoluene; TNT	0.1 0.5	5	2019					
m-Xylene-a,a'-diamine	0.018 0.1	6	2019					