

Prioritization: September 2010 Update

Sept. 21-22, 2010

Carcinogen Identification Committee Meeting

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Prioritization Process

- **Purpose** – to identify chemicals for evaluation by the CIC
- **Goal** – to focus the efforts of the CIC on chemicals that may pose significant hazards to Californians

*Prioritization is a **preliminary appraisal** of the evidence of hazard*



Prioritization Process

Tracking Database



Candidate Chemicals



Screens: Focused Literature Review

Chemicals Proposed for Committee Consideration



Consultation with the Committee on Chemicals for Review



OEHHA Selection of Chemicals for
Preparation of Hazard Identification Materials



Screening of 380+ Candidate Chemicals

Status Update

- **March 2009** **~50% complete**
- **July 2010** **~75% complete**
- **Early 2011** **Screening to be completed**



Chemicals Identified for CIC Consultation

CIC Meeting

- **May 29, 2009** **38 chemicals**
- **Sept. 21 & 22, 2010** **27 chemicals**



2009 Chemical Prioritization*

High priority

- Amphetamine & its salts
- **1,3-Dichloro-2-propanol (1,3-DCP)**
- Diisononyl phthalate (DINP)
- 2,6-Dimethyl-Nitrosomorpholine
- Fluoride & its salts
- Haloperidol
- **3-Monochloropropane-1,2-diol (3-MCPD)**
- N-Nitrosohexamethyleneimine
- Perfluorooctanoic acid (PFOA) & its salts & transformation & degradation precursors

Medium priority

- 11-Aminoundecanoic acid
- Aspartame
- Dicofof
- Diethanolamine (DEA)
- Hydroquinone
- Methoxychlor
- Methyl ethyl ketoxime
- 3-Nitrofluoranthene
- N-Nitrosoanabasine
- Permethrin
- Tetrachlorvinphos
- Thiamethoxam
- Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)

Low priority

- 2-Amino-5-nitrothiazole
- Anthanthrene
- Benoxacor
- 2-Chloro-1,1,1-trifluoroethane
- D&C Yellow #11
- N,N-Diethylthiourea
- 1,3-Dinitropyrene
- Ethylnodiol diacetate
- Molybdenum trioxide
- Nitrofurantoin
- 5-Nitro-*o*-toluidene
- Rock wool
- Triameterene
- Triclosan
- Triethanolamine (TEA)
- Vinylidene chloride

*None of the 38 chemicals was ranked as “No priority”



2010: 27 Chemicals for Prioritization (1)

Chemical Name	Exposure				Human Data			Animal Data					Other Relevant Data				
	Widespread	High in frequent consumers	Limited / occupational	High in infrequent consumers	Analytical	Descriptive	Case series / reports	Two or more studies	One study w/ unusual incidence, site/type, age at onset	One study and second study with benign tumors only	One study	Tumor initiation / promotion or co-carcinogenicity studies	Genotoxicity	Carcinogenic metabolites	Structural similarity with tumorigens or P65 carcinogens	Hormonal activity / disruption	Other mechanistic studies
Acephate	X							X					X				
<i>Alpha</i> -methyl styrene (1-methyl-1-phenylethylene)			X					X					X				
Amitraz	X							X					X	X	X	X	
Atrazine	X				X	X		X					X		X	X	X
2-Biphenylamine and its salts			X					X					X		X		
Budesonide		X						X					X				
4-Chloro- <i>m</i> -phenylenediamine			X					X					X		X		
C.I. Acid Orange 3		X							X				X		X		
Ciprofibrate		X						X					X		X		X
Clomiphene and its salts				X	X		X				X		X		X	X	
Decabromodiphenyl ether (DecaBDE; decabromobiphenyl oxide)	X							X					X		X		
Decalin	X							X					X				X
2,6-Dichloro- <i>p</i> -phenylenediamine			X					X					X		X		
Furfural	X							X				X	X				



2010: 27 Chemicals for Prioritization (2)

Chemical Name	Exposure				Human Data			Animal Data					Other Relevant Data				
	Widespread	High in frequent consumers	Limited / occupational	High in infrequent consumers	Analytical	Descriptive	Case series / reports	Two or more studies	One study w/ unusual incidence, site/type, age at onset	One study and second study with benign tumors only	One study	Tumor initiation / promotion or co-carcinogenicity studies	Genotoxicity	Carcinogenic metabolites	Structural similarity with tumorigens or P65 carcinogens	Hormonal activity / disruption	Other mechanistic studies
Gentian Violet			X					X					X		X		
4-Hydroxymethyl, 4-Methyl, & 4-Hydroxy Benzenediazonium and their salts		X						X					X		X		X
Isoniazid				X	X		X	X					X	X	X		
Malathion	X				X			X					X	X			X
7-Methylbenz[a]anthracene	X							X			X		X		X		
N-Methyl-N-formylhydrazine				X				X						X	X		
Methylphenidate and its salts		X			X			X					X				
Omeprazole and its salts		X					X	X					X		X		X
Pantoprazole and its salts		X						X			X		X		X		X
Perfluorooctane sulfonate (PFOS) and its salts and transformation and degradation precursors	X				X			X					X		X	X	X
Phosmet	X							X					X	X	X		X
Quinoxaline-1,4-dioxide Compounds and Desoxycarbadox	X							X					X	X	X		
Rabeprozole and its salts		X						X					X		X		X

