

From: "Caroline Cox"
To: <coshita@oehha.ca.gov>
Date: 5/5/2009 1:22 PM
Subject: Prioritization of Chemicals for Carcinogen Identification
Committee Review: Proposed Chemicals for Committee Consideration and
Consultation March 2009
Attachments: RTECS triethanolamine.pdf; RTECS dicofol.pdf; RTECS
methoxychlor.pdf; RTECS PFOA.pdf

Cynthia Oshita
Office of Environmental Health Hazard Assessment
Proposition 65 Implementation
P.O. Box 4010 1001 I Street, 19th floor
Sacramento, California 95812-4010

Dear Cynthia Oshita:

The Center for Environmental Health is a nonprofit organization in Oakland whose mission is to protect people from toxic chemicals. We have found that Proposition 65 is a powerful tool to accomplish this goal and we therefore support adding new chemicals to the list of chemicals known to the State to cause cancer or reproductive toxicity.

As the Carcinogen Identification Committee evaluates candidate chemicals for their ability to cause cancer, we think that it is important for the committee to have all available relevant data. I therefore am attaching information from the National Institute for Occupational Safety and Health's RTECS database about the mutagenicity of dicofol, methoxychlor, perfluorooctanoic acid, and triethanolamine. These are chemicals for which the summary document prepared for the May 29, 2009 meeting indicated that no genotoxicity studies were available.

Thank you for the opportunity to participate in the work of the CIC.

Sincerely,

Caroline Cox

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The Registry of Toxic Effects of Chemical Substances

Octanoic acid, pentadecafluoro -

RTECS #: RH0781000

CAS #: 335-67-1

UPDATE: November 2008

MW: 414.09

MF: C₈HF₁₅O₂

NOTE:

- TOXICITY DATA HAVE NOT BEEN EVALUATED. OMISSION OF A SUBSTANCE OR NOTATION DOES NOT IMPLY ANY RELIEF FROM REGULATORY RESPONSIBILITY.

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SYNONYMS:

- | | |
|--|------------------------------------|
| 1. PFOA | 5. Perfluoroheptanecarboxylic acid |
| 2. Pentadecafluorooctanoic acid | 6. Perfluorooctanoic acid |
| 3. Pentadecafluoro - n - octanoic acid | 7. Perfluorooctanoic acid |
| 4. Perfluorocaprylic acid | |

SKIN AND EYE IRRITATION DATA AND REFERENCES:

ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
N/R	N/R	N/R	N/R

MUTATION DATA AND REFERENCES:

SYSTEM TEST	ROUTE/ ORGANISM/ TISSUE	DOSE	REFERENCE
DNA adduct	Escherichia coli	50 µmol/L	MUREAV 89,95,1981
DNA damage	human other cell types	50 µmol/L/24 hour	MUREAV 587,38,2005
DNA damage	intraperitoneal rat	100 mg/kg	CALEDQ 57,55,1991
DNA damage	oral rat	168 mg/kg/2 week- continuous	CALEDQ 57,55,1991
micronucleus test	human other cell types	100 µmol/L/24 hour	MUREAV 587,38,2005

REPRODUCTIVE EFFECTS DATA AND REFERENCES:

ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
oral mouse	lowest published toxic dose: 17 mg/kg (2-18 day pregnant)	Reproductive: Effects on fertility: Post- implantation mortality (e.g., dead and/or resorbed implants per total number of implants)	TOXID9 44,58,2005
oral mouse	lowest published toxic dose: 340 mg/kg (2-18 day pregnant)	Reproductive: Effects on embryo or fetus: Fetotoxicity (except death, e.g., stunted fetus) Reproductive: Effects on embryo or fetus: Fetal death	TOXID9 44,58,2005
oral mouse	lowest published toxic dose: 170 mg/kg (2-18 day pregnant)	Reproductive: Effects on newborn: Stillbirth Reproductive: Effects on newborn: Viability index (e.g., # alive at day 4 per # born alive)	TOXID9 44,58,2005

		Reproductive: Effects on newborn: Physical	
oral mouse	lowest published toxic dose: 55 mg/kg (8-18 day pregnant)	Reproductive: Effects on newborn: Growth statistics (e.g., reduced weight gain)	TOXID9 90,75,2006
oral mouse	lowest published toxic dose: 90 mg/kg (2-19 day pregnant)	Reproductive: Effects on embryo or fetus: Fetotoxicity (except death, e.g., stunted fetus) Reproductive: Specific developmental abnormalities: Hepatobiliary system Reproductive: Effects on newborn: Biochemical and metabolic	TOXID9 90,189,2006
oral mouse	lowest published toxic dose: 17 mg/kg (1-17 day pregnant)	Reproductive: Effects on embryo or fetus: Fetotoxicity (except death, e.g., stunted fetus)	TXCYAC 239,15,2007
oral mouse	lowest published toxic dose: 85 mg/kg (1-17 day pregnant)	Reproductive: Maternal effects: Breasts, lactation (prior to or during pregnancy) Reproductive: Effects on newborn: Growth statistics (e.g., reduced weight gain) Reproductive: Effects on newborn: Physical	TOSCF2 96,133,2007
oral mouse	lowest published toxic dose: 50 mg/kg (8-17 day pregnant)	Reproductive: Maternal effects: Breasts, lactation (prior to or during pregnancy) Reproductive: Effects on newborn: Growth statistics (e.g., reduced weight gain) Reproductive: Effects on newborn: Physical	TOSCF2 96,133,2007
oral mouse	lowest published toxic dose: 30 mg/kg (12-17 day pregnant)	Reproductive: Maternal effects: Breasts, lactation (prior to or during pregnancy) Reproductive: Effects on newborn: Growth statistics (e.g., reduced weight gain) Reproductive: Effects on newborn: Physical	TOSCF2 96,133,2007
oral mouse	lowest published toxic dose: 340 mg/kg (1-17 day pregnant)	Reproductive: Effects on fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants) Reproductive: Effects on embryo or fetus: Fetotoxicity (except death, e.g., stunted fetus) Reproductive: Effects on embryo or fetus:	TERP2* -,312,2004

		Fetal death	
oral mouse	lowest published toxic dose: 340 mg/kg (1-17 day pregnant)	Reproductive: Effects on newborn: Stillbirth	TERP2* -,312,2004
oral mouse	lowest published toxic dose: 170 mg/kg (1-17 day pregnant)	Reproductive: Effects on newborn: Viability index (e.g., # alive at day 4 per # born alive) Reproductive: Effects on newborn: Physical	TERP2* -,312,2004
oral mouse	lowest published toxic dose: 85 mg/kg (1-17 day pregnant)	Reproductive: Effects on newborn: Growth statistics (e.g., reduced weight gain)	TERP2* -,312,2004
oral mouse	lowest published toxic dose: 340 mg/kg (1-17 day pregnant)	Reproductive: Effects on fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants)	TERP2* -,358,2005
oral mouse	lowest published toxic dose: 140 mg/kg (1-7 day pregnant)	Reproductive: Effects on embryo or fetus: Fetal death	TERP2* -,358,2005
unreported route mouse	lowest published toxic dose: 85 mg/kg (2-18 day pregnant)	Reproductive: Effects on fertility: Litter size (e.g., # fetuses per litter; measured before birth) Reproductive: Effects on newborn: Growth statistics (e.g., reduced weight gain)	TOXID9 90,76,2006
unreported route mouse	lowest published toxic dose: 50 mg/kg (9-18 day pregnant)	Reproductive: Maternal effects: Breasts, lactation (prior to or during pregnancy) Reproductive: Other developmental abnormalities Reproductive: Effects on newborn: Growth statistics (e.g., reduced weight gain)	TOXID9 90,82,2006

TUMORIGENIC DATA AND REFERENCES:

ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
N/R	N/R	N/R	N/R

ACUTE TOXICITY DATA AND REFERENCES:

OTHER MULTIPLE DOSE DATA AND REFERENCES:

ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
implant chicken	lowest published toxic dose: 0.21 mg/kg/4 week- continuous	Liver: Other changes	TXCYAC 237,111,2007
oral mouse	lowest published toxic dose: 6 mg/kg/10 day- continuous	Liver: Other changes Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Multiple enzyme effects	XENOBH 23,761,1993
oral mouse	lowest published toxic dose: 120 mg/kg/10 day- continuous	Liver: Changes in liver weight Nutritional and Gross Metabolic: Weight loss or decreased weight gain Biochemical: Metabolism (intermediary): Other proteins	XENOBH 23,761,1993
oral mouse	lowest published toxic dose: 204.4 mg/kg/7 day- continuous	Liver: Changes in liver weight Endocrine: Changes in thymus weight Blood: Changes in spleen	BCPCA6 63,1893,2002
oral mouse	lowest published toxic dose: 161.7 mg/kg/7 day- continuous	Behavioral: Fluid intake Liver: Changes in liver weight Nutritional and Gross Metabolic: Weight loss or decreased weight gain	BCPCA6 66,749,2003
oral mouse	lowest published toxic dose: 161.7 mg/kg/7 day- continuous	Biochemical: Metabolism (intermediary): Lipids including transport	BCPCA6 66,749,2003
oral mouse	lowest published toxic dose: 46.2 mg/kg/2 day- continuous	Blood: Changes in serum composition (e.g. TP, bilirubin, cholesterol)	BCPCA6 66,749,2003
oral mouse	lowest published toxic dose: 340 mg/kg/17 day- intermittent	Nutritional and Gross Metabolic: Weight loss or decreased weight gain	TOXID9 44,58,2005
oral mouse	lowest published toxic dose: 17 mg/kg/17 day- intermittent	Liver: Other changes	TOXID9 44,58,2005

oral mouse	lowest published toxic dose: 450 mg/kg/15 day- intermittent	Endocrine: Changes in spleen weight Immunological Including Allergic: Decrease in humoral immune response Nutritional and Gross Metabolic: Weight loss or decreased weight gain	TOXID9 90,52,2006
oral rat	lowest published toxic dose: 42 mg/kg/7 day- intermittent	Liver: Changes in liver weight Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Other transferases Biochemical: Metabolism (intermediary): Lipids including transport	TXCYAC 99,169,1995
oral rat	lowest published toxic dose: 84 mg/kg/2 week- continuous	Liver: Changes in liver weight Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Hepatic microsomal mixed oxidase (dealkylation, hydroxylation, etc.) Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Other oxidoreductases	TXCYAC 93,85,1994
oral rat	lowest published toxic dose: 1,092 mg/kg/26 week- continuous	Liver: Changes in liver weight Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Hepatic microsomal mixed oxidase (dealkylation, hydroxylation, etc.) Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Other oxidoreductases	TXCYAC 93,85,1994

REVIEWS:

ORGANIZATION	STANDARD	REFERENCE
TOXICOLOGY REVIEW		ENTOX* -,355,2005
TOXICOLOGY REVIEW		JTSCDR 28,49,2003
TOXICOLOGY REVIEW		CRTXB2 34,351,2004

TOXICOLOGY REVIEW

[MUREAV](#) 658,124,2008

STANDARDS AND REGULATIONS:

ORGANIZATION	STANDARD	REFERENCE
Occupational Exposure Limit - GERMANY	MAK 0.005 mg/m ³ , 2005	
Occupational Exposure Limit - SWITZERLAND	MAK- week 0.005 mg/m ³ ,KZG- week 0.04 mg/m ³ , Skin, DEC2006	

NIOSH DOCUMENTATION AND SURVEILLANCE:

ORGANIZATION	STANDARD or SURVEY	REFERENCE
N/R	N/R	N/R

STATUS IN FEDERAL AGENCIES:

ORGANIZATION	REFERENCE
EPA TSCA Section 8(b) CHEMICAL INVENTORY	
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001	

REFERENCES:

CODEN	REFERENCE
BCPCA6	Biochemical Pharmacology. (Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523) V.1- 1958-
CALEDQ	Cancer Letters (Shannon, Ireland). (Elsevier Scientific Pub. Ireland Ltd., POB 85, Limerick, Ireland) V.1- 1975-

CRTXB2	CRC Critical Reviews in Toxicology. (CRC Press, Inc., 2000 Corporate Blvd., NW, Boca Raton, FL 33431) V.1- 1971-
ENTOX*	Encyclopedia of Toxicology: Reference Book, Elsevier, 2005
JTSCDR	Journal of Toxicological Sciences. (Japanese Soc. of Toxicological Sciences, 4th Floor, Gakkai Center Bldg., 4-16, Yayoi 2-chome, Bunkyo-ku, Tokyo 113, Japan) V.1- 1976-
MUREAV	Mutation Research. (Elsevier Science Pub. B.V., POB 211, 1000 AE Amsterdam, Netherlands) V.1- 1964-
NRTXDN	Neurotoxicology. (Intox Press, Inc., POB 34075, Little Rock, AR 72203) V.1- 1979-
TERP2*	
TOLED5	Toxicology Letters. (Elsevier Science Pub. B.V., POB 211, 1000 AE Amsterdam, Netherlands) V.1- 1977-
TOSCF2	Toxicological Sciences (Oxford University Press, 6277 Sea Harbor Drive, Orlando, FL 32887) V. 41, Jan. 1998-
TOXID9	Toxicologist. (Soc. of Toxicology, Inc., 475 Wolf Ledge Parkway, Akron, OH 44311) V.1- 1981-
TXAPA9	Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1959-
TXCYAC	Toxicology. (Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick, Ireland) V.1- 1973-
XENOBH	Xenobiotica. (Taylor & Francis Ltd., 4 John St., London WC1N 2ET, UK) V.1- 1971-

RTECS Compound Description:**Mutagen****Reproductive Effector****Human Data**

[Click Here for Additional Information about RTECS](#) **EXIT**