

Zebrafish Developmental Toxicity and Photomotor Response

Readme File for Supporting Data Files

Introduction

As part of the [West Virginia Chemical Spill research program](#), NTP chemicals related to the Elk River chemical spill in West Virginia (Table 1) for their effects on embryonic and larval development and behavior and effects on movement of zebrafish in response to light. Summaries of the study findings were reported in [June 2015](#), [July 2015](#), [August 2015](#), and [July 2016](#) updates.

Data Files Available for Download

A set of supporting data files for the zebrafish developmental toxicity and photomotor response studies is available on this [NTP data Web page](#).

For the zebrafish developmental toxicity study, the files include summary tables at the treatment level, which are available as PDF files, and the corresponding individual animal data, which are available as Microsoft Excel files. The *key* worksheet within each file provides an explanation of variables.

For the zebrafish photomotor response study, Round 1 and Round 2 results are available in two Excel files. The *key* worksheet within each file provides an explanation of variables. The statistical analysis for Round 1 and Round 2 results are included in a single Excel file. Additionally, the table of main findings is available as a PDF file; this table includes data for chemicals that altered zebrafish photomotor response.

The data Web page also provides the following methods files: (1) a “Chemical Methods” file that covers chemical procurement, analysis, and formulation for all chemicals used in the research program and (2) a “Materials and Methods” file that lists what was studied and describes the methods for each study.

Files can be downloaded individually or as a complete set for the study by using the *Download All* button. If you need assistance with the data files, please contact CEBS-Support@mail.nih.gov.

Access to Data Online

All data are available in the [Chemical Effects in Biological Systems \(CEBS\) database](#). Access to the data is available by searching CEBS using the study numbers. Data from additional studies conducted on the chemicals are accessible by searching CEBS using the Chemical Abstracts Service Registry Number (CASRN) or chemical name (see Table 1).

Table 1. Elk River Spill Chemicals Tested for Zebrafish Developmental Toxicity and Photomotor Response Studies

CASRN	Compound Name
34885-03-5	4-Methycyclohexanemethanol (MCHM)
CRUDEMCHM*	Crude 4-Methycyclohexanemethanol (Crude MCHM)
770-35-4	Propylene glycol phenyl ether (PPH)
94-60-0	Dimethyl 1,4-cyclohexanedicarboxylate
51181-40-9	Methyl 4-methylcyclohexanecarboxylate (MMCHC)
98955-27-2	4-(Methoxymethyl)cyclohexanemethanol (MMCHM)
4331-54-8	4-Methylcyclohexanecarboxylic acid
2105-40-0	2-Methylcyclohexanemethanol (2MCHM)
105-08-8	1,4-Cyclohexanedimethanol
4169-04-4	Phenoxyisopropanol
114651-37-5	Cyclohexanemethanol, 4-[(ethenyloxy)methyl]-
498-81-7	Cyclohexanemethanol, alpha, alpha, 4-trimethyl-
NA	DOWANOL™ DiPPh

*This is a CEBS identification number, because this chemical formulation does not have a specific CASRN.

Suggested Citation

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