

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: File for branched and linear heptyl nonyl phthalate ester (CAS #111381-89-6)

FROM: Anne Kim, Air Quality Division, Toxics Unit

SUBJECT: Screening Level Derivation

DATE: November 17, 2006

The initial threshold screening level (ITSL) for branched and linear heptyl nonyl phthalate ester is 0.1 µg/m³ based on an annual averaging time.

The following references or databases were searched to identify data to determine the screening level: U.S. Environmental Protection Agency (EPA) Integrated Risk Information System, Registry for Toxic Effects of Chemical Substances, American Conference of Governmental and Industrial Hygienists Threshold Limit Values, National Institute for Occupational Safety and Health Pocket Guide to Hazardous Chemicals, Environmental Protection Bureau Library, International Agency for Research on Cancer Monographs, Chemical Abstract Service (CAS) - Online (1967 – 2006), National Library of Medicine, Health Effects Assessment Summary Tables, and National Toxicology Program Status Report. The EPA has not established a reference concentration or reference dose for branched and linear heptyl nonyl phthalate ester.

After an extensive literature search was completed, only one study associated with branched and linear heptyl nonyl phthalate ester was found. This potentially valid study has been ordered (and has yet to be received to be reviewed), but the study title does not clarify if the study may or may not be useful for screening level development. Therefore, the initial threshold screening level (ITSL) is based on the information at hand (or the lack thereof). It will be re-evaluated when the study is received and reviewed.

Therefore, at present, there are no toxicity studies available from which a screening level could be established.

Pursuant to Rule 232(1)(i), the ITSL for branched and linear heptyl nonyl phthalate ester is 0.1 µg/m³ based on an annual averaging time.

AK:lh