

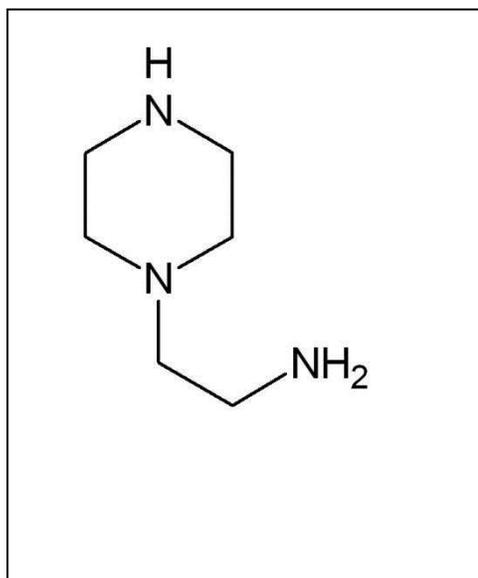
MICHIGAN DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENT

INTEROFFICE COMMUNICATION

TO: File for Aminoethylpiperazine (CAS # 140-31-8)
FROM: Doreen Lehner, Toxics Unit, Air Quality Division
DATE: July 12, 2010
SUBJECT: Screening Level for Aminoethylpiperazine (CAS # 140-31-8)

The initial threshold screening level (ITSL) for aminoethylpiperazine (CAS # 140-31-8) is 0.1 ug/m³ based on an annual averaging time.

Aminoethylpiperazine (CAS # 140-31-8) is a corrosive colorless to yellowish liquid and has an ammonia-like odor. Aminoethylpiperazine is used as a corrosion inhibitor, epoxy curing agent, surface activator, and as an asphalt additive.



A literature review was conducted to determine an initial threshold screening level (ITSL) for aminoethylpiperazine. The following references and databases were searched to derive the above screening level: EPBCCD, United States Environmental Protection Agency (US EPA) Integrated Risk Information System (IRIS), National Institute for Occupational Safety and Health (NIOSH), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values and Biological Exposure Indices (TLV/BEI) 2008 guide, National Toxicology Program (NTP) Study Database, International Agency for Research on Cancer (IARC), Acute Database,

Chemical Abstract Service (CAS) Online, National Library of Medicine (NLM)-online, EPA Aggregated Computational Toxicology Resource (ACToR) Database, EPA Toxic Substance Control Act Test Submission Database (TSCATS) and Kirk-Othmer chemical encyclopedia. RfC or RfD values were unavailable. There is no NIOSH recommended exposure limit data available or a threshold limit value from ACGIH. There are also no 7-day inhalation studies for aminoethylpiperazine, which would give a NOAEL or LOAEL and no acute inhalation studies which would give an LC₅₀. Based on Rule 232 (1) (i) the ITSL is set at the default of 0.1 ug/m³. According to Rule 232 (2) (c), the averaging time is annual.

Based on the above data, the ITSL for aminoethylpiperazine is 0.1 µg/m³ based on an annual averaging time.

References:

Act 451 of 1994, Natural Resources and Environmental Protection Act and Air Pollution Control Rules, Michigan Department of Environmental Quality.

DL:lh