



## Air Toxics Screening Level Justifications Open for Public Comment

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD) develops air toxics screening levels which are health-based ambient air concentrations that provide public health protection. These screening levels are developed according to [Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451](#), as amended. These screening levels are used in the implementation of Michigan's air permitting rules that apply to new or modified sources that emit a toxic air contaminant and are required to obtain a [Permit to Install](#). Under these rules, the emission of a toxic air contaminant cannot result in a maximum ambient air concentration that exceeds an applicable health-based screening level.

Historically, AQD toxicologists developed screening levels and posted them on the AQD webpage, whereas the "justification" memos describing the bases for the screening levels were only available upon request. The public has always had the ability to comment to the AQD informally about the screening levels and how they were derived. Under rule revisions that went into effect on December 20, 2016, the AQD has formalized the comment process. The AQD will provide a 30-day formal public comment period on all health-based screening levels and their justifications.

### **There are currently no open comment periods.**

The comment period has closed and EGLE is responding to comments received on the following chemicals. Averaging times are in micrograms per cubic meter and are expressed as  $\mu\text{g}/\text{m}^3$ .

- A 30-day comment period was held from **April 15, 2024 to May 15, 2024** for screening level and justification document for a list of two chemicals. Comments were received and are being reviewed.
- A 30-day comment period was held from **December 15, 2023 to January 15, 2024** for screening levels and justification documents for a list of five chemicals. No substantive comments were received.
- A 30-day comment period was held from **May 15, 2023 to June 15, 2023** for screening levels and justification documents for a list of four chemicals. No substantive comments were received.
- A 30-day comment period was held from **November 15, 2022 to December 15, 2022** for screening levels and justification documents for a list of five chemicals. No substantive comments were received.
- A 30-day comment period was held from **June 15, 2022 to July 15, 2022**, for screening levels and justification documents for a list of four chemicals. Substantive comments were received for the toluene diisocyanates. Responses to comments were completed by the **September 14, 2022**, deadline and are posted on the webpage for all screening levels and justifications.

Substantive comments were received for the following chemicals:

| CAS #                      | Chemical Name            | Results of Review  |
|----------------------------|--------------------------|--------------------|
| <a href="#">91-08-7</a>    | 2,6-Toluene diisocyanate | No change in IRSL. |
| <a href="#">584-84-9</a>   | 2,4-Toluene diisocyanate | No change in IRSL. |
| <a href="#">26471-62-5</a> | Toluene diisocyanate     | No change in IRSL. |

- A 30-day comment period was held from **December 15, 2021 to January 17, 2022**, for screening levels and justification documents for a list of 13 chemicals. No comments were received.
- A 30-day comment period was held from **March 15, 2021 to April 14, 2021**, for one chemical screening level and justification document. No comments were received.
- A 30-day comment period was held from **October 15, 2020 to November 17, 2020**, for two chemical screening levels and justification documents. Substantive comments were received for 6:2 fluorotelomer sulfonic acid (CAS # 27619-97-2). Responses to comments were completed by the **January 15, 2021** deadline, have been sent directly to commenters, and are posted on the webpage for all screening levels and justifications.

Substantive comments were received for the following chemical:

| CAS #                      | Chemical Name                   | Results of Review |
|----------------------------|---------------------------------|-------------------|
| <a href="#">27619-97-2</a> | 6:2 Fluorotelomer Sulfonic Acid | No change in ITSL |

- A 30-day comment period was held from **December 16, 2019, to January 15, 2020**, for a list of two chemical screening levels and justification documents. No comments were received.
- A 30-day comment period was held from **May 15, 2019, to June 17, 2019**, for a list of nine chemical screening levels and justification documents. Substantive comments were received for two chemicals. Responses to comments were completed by the **August 16, 2019**, deadline, have been sent directly to commenters, and are posted on the webpage for all screening levels and justifications.

Substantive comments were received for the following chemicals:

| CAS #                     | Chemical Name                | Results of Review  |
|---------------------------|------------------------------|--|
| <a href="#">1302-42-7</a> | Sodium Aluminate             | ITSL of 0.1 µg/m <sup>3</sup> (annual averaging time) was rescinded. Chemical will be evaluated on a case-by-case basis. |
| <a href="#">2634-33-5</a> | 1,2-Benzisothiazol-3(2H)-One | ITSL of 0.1 µg/m <sup>3</sup> (annual averaging time) was rescinded. Chemical will be evaluated on a case-by-case basis. |

- A 30-day comment period was held from **December 21, 2018, to January 21, 2019**, for a list of ten chemical screening levels and justification documents. No comments were received.

- A 30-day comment period was held from **March 15, 2018, to April 16, 2018**, for a list of five chemical screening levels and justification documents. No substantive comments were received.
- A 30-day comment period was held from **December 21, 2017, to January 21, 2018**, for a list of two chemical screening levels and justification documents. No substantive comments were received.
- A 30-day formal public comment period was held from **August 14 to September 14, 2017**, for a list of four chemical screening levels and justification documents. No substantive comments were received.
- A 60-day formal public comment period was held from **February 14 to April 14, 2017**, for the initial list of more than 1200 screening levels and justification documents. Substantive comments were received for 26 chemicals. Responses to comments were completed by the **October 11, 2017**, deadline, have been sent directly to commenters, and are posted on the webpage for all screening levels and justifications.

Substantive comments were received for the following chemicals:

| CAS #                    | Chemical Name                             | Results of Review   |
|--------------------------|---|---|
| <a href="#">74-93-1</a>  | Methyl mercaptan                          | No change in ITSL.  |
| <a href="#">75-21-8</a>  | Ethylene oxide                            | No change in IRSL or SRSL.  |
| <a href="#">75-56-9</a>  | Propylene oxide                           | No change in IRSL or ITSL.  |
| <a href="#">98-00-0</a>  | Furfuryl alcohol                          | No change in IRSL.  |
| <a href="#">106-99-0</a> | 1,3-Butadiene                             | ITSL changed from 2 µg/m <sup>3</sup> (24-hour averaging time) to 33 µg/m <sup>3</sup> (annual averaging time).   |
| <a href="#">107-21-1</a> | Ethylene glycol                           | ITSL changed from 1,000 µg/m <sup>3</sup> (1-hour averaging time) to 4,700 µg/m <sup>3</sup> (1-hour averaging time).   |
| <a href="#">107-98-2</a> | Propylene glycol monomethyl ether         | ITSL changed from 2,000 µg/m <sup>3</sup> (annual averaging time) to 3,700 µg/m <sup>3</sup> (1-hour averaging time).   |
| <a href="#">108-10-1</a> | Methyl isobutyl ketone                    | IRSL changed from 1.3 µg/m <sup>3</sup> (annual averaging time) to 2 µg/m <sup>3</sup> (annual averaging time). SRSL changed from 13 µg/m <sup>3</sup> (annual averaging time) to 20 µg/m <sup>3</sup> (annual averaging time). |
| <a href="#">108-65-6</a> | Propylene glycol monomethyl ether acetate | ITSL changed from 3,000 µg/m <sup>3</sup> (annual averaging time) to 5,400 µg/m <sup>3</sup> (1-hour averaging time).   |
| <a href="#">109-99-9</a> | Tetrahydrofuran                           | No change in screening level; however, AQD agrees that THF is not a human carcinogen.   |
| <a href="#">111-46-6</a> | Diethylene glycol                         | ITSL changed from 21,000 µg/m <sup>3</sup> (24-hour averaging time) to 1,600 µg/m <sup>3</sup> (annual averaging time).   |
| <a href="#">115-07-1</a> | Propylene                                 | ITSL changed from 1,500 µg/m <sup>3</sup> (annual averaging time) to 8,600 µg/m <sup>3</sup> (8-hour averaging time).   |
| <a href="#">115-11-7</a> | Isobutene                                 | ITSL changed from 21 µg/m <sup>3</sup> (annual averaging time) to 110,000 µg/m <sup>3</sup> (annual averaging time).  |

| CAS #                      | Chemical Name                        | Results of Review   |
|----------------------------|--------------------------------------|---|
| <a href="#">118-74-1</a>   | Hexachlorobenzene                    | ITSL changed from 0.035 µg/m <sup>3</sup> (24-hour averaging time) to 0.35 µg/m <sup>3</sup> (24-hour averaging time).  |
| <a href="#">540-88-5</a>   | Tertiary butyl acetate               | ITSL changed from 9,500 µg/m <sup>3</sup> (8-hour averaging time) to 2,400 µg/m <sup>3</sup> (8-hour averaging time) for all isomers.   |
| <a href="#">584-84-9</a>   | 2,4-Toluene diisocyanate             | No change in IRSL or SRSL.  |
| <a href="#">637-92-3</a>   | Ethyl tertiary butyl ether           | The ITSL changed from 373 µg/m <sup>3</sup> (annual averaging time) to 9,000 µg/m <sup>3</sup> (annual averaging time).   |
| <a href="#">872-50-4</a>   | N-Methylpyrrolidone                  | The ITSL changed from 700 µg/m <sup>3</sup> (annual averaging time) to 5,600 µg/m <sup>3</sup> (24-hour averaging time).  |
| <a href="#">7440-02-0</a>  | Nickel                               | The IRSL was changed from 0.0042 µg/m <sup>3</sup> (annual averaging time) to 0.0058 µg/m <sup>3</sup> (annual averaging time). The SRSL was increased from 0.042 µg/m <sup>3</sup> (annual averaging time) to 0.058 µg/m <sup>3</sup> (annual averaging time). |
| <a href="#">12035-72-2</a> | Nickel subsulfide                    | No change in IRSL or SRSL.  |
| <a href="#">25265-71-8</a> | Dipropylene glycol                   | This chemical should be treated as a particulate. The ITSL was rescinded and is regulated as a PM NAAQS.  |
| <a href="#">25498-49-1</a> | Tripropylene glycol monomethyl ether | The ITSL changed from 11 µg/m <sup>3</sup> (annual averaging time) to 20 µg/m <sup>3</sup> (annual averaging time).   |
| <a href="#">29911-27-1</a> | Dipropylene glycol monopropyl ether  | The ITSL changed from 5 µg/m <sup>3</sup> (annual averaging time) to 180 µg/m <sup>3</sup> (annual averaging time).   |
| <a href="#">29911-28-2</a> | Dipropylene glycol monobutyl ether   | ITSL changed from 11 µg/m <sup>3</sup> (annual averaging time) to 800 µg/m <sup>3</sup> (24-hour averaging time) .  |
| <a href="#">55934-93-5</a> | Tripropylene glycol monobutyl ether  | No change in ITSL.  |
| <a href="#">57018-52-7</a> | Propylene glycol tert-butyl ether    | The ITSL of 329 µg/m <sup>3</sup> (annual averaging time) is rescinded and changed to an IRSL of 0.7 µg/m <sup>3</sup> (annual averaging time) and SRSL of 7 µg/m <sup>3</sup> (annual averaging time).   |