## MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

## INTEROFFICE COMMUNICATION

TO: File for Methyltrichlorosilane (CAS # 75-79-6)

FROM: Robert Sills, AQD Toxics Unit Supervisor

SUBJECT: Methyltrichlorosilane ITSL Justification

DATE: December 22, 2016

The ITSL for methyltrichlorosilane is 109 ug/m³, with annual averaging time. This ITSL was established on September 13, 1989, based on an unpublished study (Dow Corning, 1989) reporting a 4-hr rat inhalation  $LC_{50} = 888$  ppm (5431 mg/m³). The ITSL (previously, in 1989, referred to as the Acceptable Ambient Concentration (AAC)) was derived as follows, consistent with Rule 232(1)(f):

ITSL = 
$$LC_{50}$$
  
500 X 100

ITSL = 
$$\underline{5431E+3 \text{ ug/m}^3}$$
 = 108.6 ug/m<sup>3</sup> ~ 109 ug/m<sup>3</sup> (annual averaging time) 500 X 100

## Reference:

Dow Corning Corporation. 1989. The Acute Inhalation Toxicity of Methyltriclorosilane in Rats. Unpublished report. April 7, 1989. Available in AQD Toxics Unit chemical file.