**Section 742.APPENDIX A General**

**Section 742.TABLE A Soil Saturation Limits (Csat) for Chemicals Whose Melting Point is Less than 30°C**

| CAS No. | Chemical Name | For the Outdoor Inhalation Exposure Routea Csat (mg/kg) | For the Soil Component of the Groundwater Ingestion Exposure Routeb Csat (mg/kg) |
| --- | --- | --- | --- |
| 67-64-1 | Acetone | 1.00E+05 | 2.00E+05 |
| 71-43-2 | Benzene | 8.00E+02 | 5.80E+02 |
| 111-44-4 | Bis(2-chloroethyl)ether | 3.00E+03 | 3.90E+03 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2.00E+02 | 6.80E+01 |
| 75-27-4 | Bromodichloromethane (Dichlorobromomethane) | 2.80E+03 | 2.00E+03 |
| 75-25-2 | Bromoform | 2.00E+03 | 1.20E+03 |
| 71-36-3 | Butanol | 1.00E+04 | 1.60E+04 |
| 78-93-3 | 2-Butanone (MEK) | 2.50E+04 | 4.50E+04 |
| 85-68-7 | Butyl benzyl phthalate | 1.00E+03 | 3.40E+02 |
| 75-15-0 | Carbon disulfide | 8.50E+02 | 5.20E+02 |
| 56-23-5 | Carbon tetrachloride | 1.20E+03 | 5.60E+02 |
| 108-90-7 | Chlorobenzene (Monochlorobenzene) | 6.20E+02 | 2.90E+02 |
| 124-48-1 | Chlorodibromomethane (Dibromochloromethane) | 1.40E+03 | 8.90E+02 |
| 67-66-3 | Chloroform | 3.40E+03 | 2.50E+03 |
| 95-57-8 | 2-Chlorophenolc (ionizable organic) | 1.00E+04 | 7.10E+03 |
| 75-99-0 | Dalapon | 1.20E+05 | 1.90E+05 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 6.90E+02 | 4.30E+02 |
| 106-93-4 | 1,2-Dibromoethane (Ethylene dibromide) | 1.60E+03 | 1.20E+03 |
| 84-74-2 | Di-*n*-butyl phthalate | 2.60E+03 | 8.80E+02 |
| 95-50-1 | 1,2-Dichlorobenzene (o-Dichlorobenzene) | 5.60E+02 | 2.10E+02 |
| 75-71-8 | Dichlorodifluoromethane | 8.70E+02 | 4.30E+02 |
| 75-34-3 | 1,1-Dichloroethane | 1.70E+03 | 1.40E+03 |
| 107-06-2 | 1,2-Dichloroethane (Ethylene dichloride) | 1.90E+03 | 2.10E+03 |
| 75-35-4 | 1,1-Dichloroethylene | 1.40E+03 | 9.10E+02 |
| 156-59-2 | *cis*-1,2-Dichloroethylene | 1.30E+03 | 1.00E+03 |
| 156-60-5 | *trans*-1,2-Dichloroethylene | 3.00E+03 | 2.10E+03 |
| 78-87-5 | 1,2-Dichloropropane | 1.20E+03 | 8.70E+02 |
| 542-75-6 | 1,3-Dichloropropene (1,3-Dichloropropylene, *cis* + *trans*) | 1.00E+03 | 8.50E+02 |
| 84-66-2 | Diethyl phthalate | 2.20E+03 | 9.20E+02 |
| 105-67-9 | 2,4-Dimethylphenol | 1.00E+04 | 4.70E+03 |
| 117-84-0 | Di-*n*-octyl phthalate | 1.60E+01 | 5.20E+00 |
| 123-91-1 | p-Dioxane | 1.00E+05 | 2.00E+05 |
| 100-41-4 | Ethylbenzene | 3.50E+02 | 1.50E+02 |
| 77-47-4 | Hexachlorocyclopentadiene | 1.30E+02 | 4.40E+01 |
| 78-59-1 | Isophorone | 3.00E+03 | 3.00E+03 |
| 98-82-8 | Isopropylbenzene (Cumene) | 9.40E+02 | 4.00E+02 |
| 7439-97-6 | Mercury (elemental) | 3.10E+00 | N/A |
| 74-83-9 | Methyl bromide (Bromomethane) | 3.10E+03 | 3.60E+03 |
| 1634-04-4 | Methyl tertiary-butyl ether | 8.40E+03 | 1.10E+04 |
| 75-09-2 | Methylene chloride (Dichloromethane) | 2.50E+03 | 3.00E+03 |
| 98-95-3 | Nitrobenzene | 7.10E+02 | 5.90E+02 |
| 621-64-7 | n-Nitrosodi-n-propylamine | 1.90E+03 | 2.30E+03 |
| 100-42-5 | Styrene | 6.30E+02 | 2.60E+02 |
| 127-18-4 | Tetrachloroethylene (Perchloroethylene) | 8.00E+02 | 3.10E+02 |
| 108-88-3 | Toluene | 5.80E+02 | 2.90E+02 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.40E+02 | 1.20E+02 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.30E+03 | 6.70E+02 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.80E+03 | 1.30E+03 |
| 79-01-6 | Trichloroethylene | 1.20E+03 | 6.50E+02 |
| 75-69-4 | Trichlorofluoromethane | 1.80E+03 | 8.90E+02 |
| 108-05-4 | Vinyl acetate | 2.60E+03 | 4.20E+03 |
| 75-01-4 | Vinyl chloride | 2.60E+03 | 2.90E+03 |
| 108-38-3 | m-Xylene | 4.10E+02 | 1.60E+02 |
| 95-47-6 | o-Xylene | 3.70E+02 | 1.50E+02 |
| 106-42-3 | p-Xylene | 3.30E+02 | 1.40E+02 |
| 1330-20-7 | Xylenes (total) | 2.80E+02 | 1.10E+02 |

a Soil Saturation Limits calculated using an foc of 0.006 g/g and a system temperature of 25°C.

b Soil Saturation Limits calculated using an foc of 0.002 g/g and a system temperature of 25°C.

c Csat for pH of 6.8.  If soil pH is other than 6.8, a site-specific Csat should be calculated using equations S19 and S29 and the pH-specific Koc values in Appendix C, Table I.

(Source: Amended at 37 Ill. Reg. 7506, effective May 15, 2013)