Appendix 11.5 Relevant Input Parameter of SAFETI

Default atmospheric temperature_____20   C
Default atmospheric pressure_____101325   N/m2
Relative humidity_____70   %
Default surface roughness parameter_____0.1
Default surface temperature_____20   C
Atmospheric molecular weight_____28.966
Atmospheric specific heat at constant pressure_1004   J/kg*K
Number of wind directions_____12
Angular Offset_____15   degree
Maximum release duration_____6000   s
Minimum temperature allowed_____-263.15   C
Maximum temperature allowed_____626.85   C
Maximum pressure allowed_____1000   bar
Maximum release velocity_____500   m/s
Toxics: height for calculation of effects_____1   m
Toxics: results grid step in X-direction_____25   m
Toxics: result grid step in Y-direction_____2.5   m
Atmospheric temp and pressure profile_____3
Wind speed profile_____2
Temperature reference height (m)_____10   m
Wind speed reference height (m)_____10   m
Cut-off height for wind speed profile (m)_____1   m
Minimum integration step size (distance)_____0.1   m
Maximum integration step size (distance)_____100   m
Maximum distance for dispersion_____50000   m
Minimum release velocity for cont. release_____0.1   m/s
Default minimum release height_____1   m
Maximum height for dispersion_____1000   m
Base averaging time_____60   s
Minimum cloud depth_____0.02   m
Minimum case frequency considered_____1e-012
Minimum event probability considered_____1e-012
Fraction population outdoors, F-N_____0.1
Fraction population outdoors, risk_____1
Fraction out killed by toxics_____0.9
Fraction in killed by toxics_____0.1
Multiplying factor for toxic F-N spread_____2