

Appendix A to Part 27. -- DHS Chemicals of Interest¹

| Chemicals of Interest (COI) | Synonym | Chemical Abstract Service (CAS) # | Release | | Theft | | Sabotage | | Security Issue | | | | | | | |
|-----------------------------|---|-----------------------------------|---------------------------|--|---------------------------|---|---------------------------|--------------------------------|----------------------|----------------------|----------------|-------------|------------------|------------------------|--|---|
| | | | Minimum Concentration (%) | Screening Threshold Quantities (in pounds) | Minimum Concentration (%) | Screening Threshold Quantities (in pounds unless otherwise noted) | Minimum Concentration (%) | Screening Threshold Quantities | Release - Flammables | Release - Explosives | Theft - CW/CWP | Theft - WME | Theft - EXP/IEDP | Sabotage/Contamination | | |
| Sesquimustard | [1,2-Bis(2-chloroethylthio)ethane] | 3563-36-8 | | | CUM 100g | | | | X | | | | | | | |
| Silane | | 7803-62-5 | 1.00 | 10,000 | | | | X | | | | | | | | |
| Silicon tetrachloride | | 10026-04-7 | | | | | ACG | APA | | | | | | | | X |
| Silicon tetrafluoride | | 7783-61-1 | | | 15.00 | 45 | | | | | | | | | | |
| Sodium azide | | 26628-22-8 | | | ACG | 400 | | | | | | | | | | X |
| Sodium chlorate | | 7775-09-9 | | | ACG | 400 | | | | | | | | | | X |
| Sodium cyanide | | 143-33-9 | | | | | ACG | APA | | | | | | | | X |
| Sodium hydrogensulfite | [Sodium dithionite] | 7775-14-6 | | | | | | APA | | | | | | | | X |
| Sodium nitrate | | 7631-99-4 | | | ACG | 400 | | | | | | | | | | X |
| Sodium phosphide | | 12058-85-4 | | | | | ACG | | | | | | | | | X |
| Soman | [o-Pinacoyl methylphosphonofluoridate] | 96-64-0 | | | CUM 100g | | | | | | | | X | | | |
| Stibine | | 7803-52-3 | | | 0.67 | 15 | | | | | | | | | | X |
| Strontium phosphide | | 12504-16-4 | | | | | ACG | APA | | | | | | | | X |
| Sulfur dioxide (anhydrous) | | 7446-09-5 | 1.00 | 5,000 | 84.00 | 500 | | | X | | | | | | | X |
| Sulfur tetrafluoride | [Sulfur fluoride (SF4), (T-4)-] | 7783-60-0 | 1.00 | 2,500 | 1.33 | 15 | | | X | | | | | | | X |
| Sulfur trioxide | | 7446-11-9 | 1.00 | 10,000 | | | | | X | | | | | | | |
| Sulfuryl chloride | | 7791-25-5 | | | | | | ACG | APA | | | | | | | X |
| Tabun | [o-Ethyl-N,N-dimethylphosphoramido-cyanidate] | 77-81-6 | | | CUM 100g | | | | | | | | X | | | |
| Tellurium hexafluoride | | 7783-80-4 | | | 0.83 | 15 | | | | | | | | | | X |
| Tetrafluoroethylene | [Ethene, tetrafluoro-] | 116-14-3 | 1.00 | 10,000 | | | | | | | | | | X | | |
| Tetramethyllead | [Plumbane, tetramethyl-] | 75-74-1 | 1.00 | 10,000 | | | | | X | | | | | | | |
| Tetramethylsilane | [Silane, tetramethyl-] | 75-76-3 | 1.00 | 10,000 | | | | | X | | | | | | | |
| Tetranitroaniline | | 53014-37-2 | ACG | 5,000 | ACG | 400 | | | | | | | | | | X |
| Tetranitromethane | [Methane, tetranitro-] | 509-14-8 | 1.00 | 10,000 | | | | | | | | | | X | | |
| Tetrazene | [Guanyl nitrosaminoguanyltetrazene] | 109-27-3 | ACG | 5,000 | ACG | 400 | | | | | | | | X | | X |