







Appendix A to Part 27. -- DHS Chemicals of Interest <sup>1</sup>

| Chemicals of Interest<br>(COI)                                | Synonym                                      | Chemical<br>Abstract<br>Service<br>(CAS) # | Release                   |   | Theft                     |   | Sabotage                  |                                   | Security Issue  |                      |                      |                |             |                  |                        |  |   |
|---|--|--|---------------------------|---|---------------------------|---|---------------------------|-----------------------------------|-----------------|----------------------|----------------------|----------------|-------------|------------------|------------------------|--|---|
|   |  |  | Minimum Concentration (%) | Screening Threshold<br>Quantities (in pounds) | Minimum Concentration (%) | Screening Threshold<br>Quantities (in pounds unless<br>otherwise noted) | Minimum Concentration (%) | Screening Threshold<br>Quantities | Release - Toxic | Release - Flammables | Release - Explosives | Theft - CW/CWP | Theft - WME | Theft - EXP/IEDP | Sabotage/Contamination |  |   |
| Chlorosarin   | [o-Isopropyl<br>methylphosphonochloridate]   | 1445-76-7                                  |                           |   | CUM 100g                  |   |                           |                                   |                 |                      | X                    |                |             |                  |                        |  |   |
| Chlorosoman   | [o-Pinacoyl<br>methylphosphonochloridate]    | 7040-57-5                                  |                           |   | CUM 100g                  |   |                           |                                   |                 |                      | X                    |                |             |                  |                        |  |   |
| Chlorosulfonic acid   |  | 7790-94-5                                  |                           |   |                           |   |                           |                                   |                 |                      |                      |                |             |                  |                        |  | X |
| Chromium oxychloride  |  | 14977-61-8                                 |                           |   |                           |   |                           | ACG                               | APA             |                      |                      |                |             |                  |                        |  | X |
| Crotonaldehyde  | [2-Butenal]                                  | 4170-30-3                                  | 1.00                      | 10,000  |                           |   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Crotonaldehyde, (E)-  | [2-Butenal], (E)-                            | 123-73-9                                   | 1.00                      | 10,000  |                           |   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Cyanogen  | [Ethanedinitrile]                            | 460-19-5                                   | 1.00                      | 10,000  | 11.67                     | 45  |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Cyanogen chloride   |  | 506-77-4                                   | 1.00                      | 10,000  | 2.67                      | 15  |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Cyclohexylamine   | [Cyclohexanamine]                            | 108-91-8                                   | 1.00                      | 15,000  |                           |   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Cyclohexyltrichlorosilane                                     |  | 98-12-4                                    |                           |   |                           |   |                           | ACG                               | APA             |                      |                      |                |             |                  |                        |  | X |
| Cyclopropane  |  | 75-19-4                                    | 1.00                      | 10,000  |                           |   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| DF  | Methyl phosphonyl difluoride                 | 676-99-3                                   |                           |   |                           | CUM 100g  |                           |                                   |                 |                      |                      |                |             |                  |                        |  |   |
| Diazodinitrophenol  |  | 87-31-0                                    | ACG                       | 5,000   | ACG                       | 400   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Diborane  |  | 19287-45-7                                 | 1.00                      | 2,500   | 2.67                      | 15  |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Dichlorosilane  | [Silane, dichloro-]                          | 4109-96-0                                  | 1.00                      | 10,000  | 10.47                     | 45  |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| N,N-(2-<br>diethylamino)ethanethiol                           |  | 100-38-9                                   |                           |   | 30.00                     | 2.2   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Diethylchlorosilane   |  | 1719-53-5                                  |                           |   |                           |   |                           |                                   |                 |                      |                      |                |             |                  |                        |  | X |
| o,o-Diethyl S-[2-<br>(diethylamino)ethyl]<br>phosphorothioate |  | 78-53-5                                    |                           |   | 30.00                     | 2.2   |                           | ACG                               | APA             |                      |                      |                | X           |                  |                        |  |   |
| Diethyleneglycol dinitrate                                    |  | 693-21-0                                   | ACG                       | 5,000   | ACG                       | 400   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| Diethyl methylphosphonite                                     |  | 15715-41-0                                 |                           |   | 30.00                     | 2.2   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| N,N-Diethyl phosphoramidic<br>dichloride                      |  | 1498-54-0                                  |                           |   | 30.00                     | 2.2   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |
| N,N-(2-<br>diisopropylamino)ethanethiol                       | N,N-diisopropyl-(beta)-<br>aminoethane thiol | 5842-07-9                                  |                           |   | 30.00                     | 2.2   |                           |                                   |                 |                      |                      |                | X           |                  |                        |  |   |



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| 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 - Toxic | Release - Flammables | Release - Explosives | Theft - CW/CWP | Theft - WME | Theft - EXP/IEDP | Sabotage/Contamination |  |   |
| Ethyl nitrite  | [Nitrous acid, ethyl ester]          | 109-95-5                          | 1.00                      | 10,000                                     |                           |   |                           |                                | X               |                      |                      |                |             |                  |                        |  |   |
| Ethyl phosphonyl difluoride                          |                                      | 753-98-0                          |                           |  | CUM 100g                  |   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |
| Ethylamine   | [Ethanamine]                         | 75-04-7                           | 1.00                      | 10,000                                     |                           |   |                           |                                | X               |                      |                      |                |             |                  |                        |  |   |
| Ethylidethanolamine                                  |                                      | 139-87-7                          |                           |  | 80.00                     | 220   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |
| Ethylene   | [Ethene]                             | 74-85-1                           | 1.00                      | 10,000                                     |                           |   |                           |                                | X               |                      |                      |                |             |                  |                        |  |   |
| Ethylene oxide                                       | [Oxirane]                            | 75-21-8                           | 1.00                      | 10,000                                     |                           |   |                           |                                | X               |                      |                      |                |             |                  |                        |  |   |
| Ethylenediamine                                      | [1,2-Ethanediamine]                  | 107-15-3                          | 1.00                      | 20,000                                     |                           |   |                           |                                |                 |                      |                      |                |             |                  |                        |  |   |
| Ethyleneimine  | [Aziridine]                          | 151-56-4                          | 1.00                      | 10,000                                     |                           |   |                           |                                |                 |                      |                      |                |             |                  |                        |  |   |
| Ethylphosphonothioic dichloride                      |                                      | 993-43-1                          |                           |  | 30.00                     | 2.2   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |
| Ethyltrichlorosilane                                 |                                      | 115-21-9                          |                           |  |                           |   |                           | ACG                            | APA             |                      |                      |                |             |                  |                        |  | X |
| Fluorine   |                                      | 7782-41-4                         | 1.00                      | 1,000                                      | 6.17                      | 15  |                           |                                | X               |                      |                      |                |             | X                |                        |  |   |
| Fluorosulfonic acid                                  |                                      | 7789-21-1                         |                           |  |                           |   |                           | ACG                            | APA             |                      |                      |                |             |                  |                        |  | X |
| Formaldehyde (solution)                              |                                      | 50-00-0                           | 1.00                      | 15,000                                     |                           |   |                           |                                |                 |                      |                      |                |             |                  |                        |  |   |
| Furan  |                                      | 110-00-9                          | 1.00                      | 10,000                                     |                           |   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |
| Germane  |                                      | 7782-65-2                         |                           |  | 20.73                     | 45  |                           |                                |                 |                      |                      |                |             |                  |                        |  | X |
| Germanium tetrafluoride                              |                                      | 7783-58-6                         |                           |  | 2.11                      | 15  |                           |                                |                 |                      |                      |                |             |                  |                        |  | X |
| Guanyl nitrosaminoguanylidene hydrazine              |                                      |                                   | ACG                       | 5,000                                      | ACG                       | 400   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |
| Hexaethyl tetraphosphate and compressed gas mixtures |                                      | 757-58-4                          |                           |  | 33.37                     | 500   |                           |                                |                 |                      |                      |                |             |                  |                        |  | X |
| Hexafluoroacetone                                    |                                      | 684-16-2                          |                           |  | 15.67                     | 45  |                           |                                |                 |                      |                      |                |             |                  |                        |  | X |
| Hexanitrostilbene                                    |                                      | 20062-22-0                        | ACG                       | 5,000                                      | ACG                       | 400   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |
| Hexolite   | [Hexoto]                             | 121-82-4                          | ACG                       | 5,000                                      | ACG                       | 400   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |
| Hexyltrichlorosilane                                 |                                      | 928-65-4                          |                           |  |                           |   |                           | ACG                            | APA             |                      |                      |                |             |                  |                        |  | X |
| HMX  | [Cyclotetramethylene-tetranitramine] | 2691-41-0                         | ACG                       | 5,000                                      | ACG                       | 400   |                           |                                |                 |                      |                      |                |             | X                |                        |  |   |



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| Chemicals of Interest<br>(COI)      | Synonym                                      | Chemical<br>Abstract<br>Service<br>(CAS) # | Release                   |                                    | Theft                     |  | Sabotage                  |                     | Security Issue  |                      |                      |                |             |                  |                        |  |   |
|-------------------------------------|--|--|---------------------------|------------------------------------|---------------------------|--|---------------------------|---------------------|-----------------|----------------------|----------------------|----------------|-------------|------------------|------------------------|--|---|
|                                     |  |  | Minimum Concentration (%) | Screening Threshold<br>(in pounds) | Minimum Concentration (%) | Screening Threshold<br>(in pounds unless<br>otherwise noted) | Minimum Concentration (%) | Screening Threshold | Release - Toxic | Release - Flammables | Release - Explosives | Theft - CW/CWP | Theft - WME | Theft - EXP/IEDP | Sabotage/Contamination |  |   |
| Isopropyl chloride                  | [Propane, 2-chloro-]                         | 75-29-6                                    | 1.00                      | 10,000                             |                           |  |                           |                     | X               |                      |                      |                |             |                  |                        |  |   |
| Isopropyl chloroformate             | [Carbonochloridic acid, 1-methylethyl ester] | 108-23-6                                   | 1.00                      | 15,000                             |                           |  |                           |                     | X               |                      |                      |                |             |                  |                        |  |   |
| Isopropylamine                      | [2-Propanamine]                              | 75-31-0                                    | 1.00                      | 10,000                             |                           |  |                           |                     | X               |                      |                      |                |             |                  |                        |  |   |
| Isopropylphosphonothioic dichloride |  | 1498-60-8                                  |                           |                                    | 30.00                     | 2.2  |                           |                     |                 |                      |                      | X              |             |                  |                        |  |   |
| Isopropylphosphonyl difluoride      |  | 677-42-9                                   |                           |                                    |                           | CUM 100g   |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Lead azide                          |  | 13424-46-9                                 | ACG                       | 5,000                              | ACG                       | 400  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Lead styphnate                      | [Lead trinitroresorcinate]                   | 15245-44-0                                 | ACG                       | 5,000                              | ACG                       | 400  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Lewisite 1                          | [2-Chlorovinyl]dichloroarsine]               | 541-25-3                                   |                           |                                    |                           | CUM 100g   |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Lewisite 2                          | [Bis(2-chlorovinyl)chloroarsine]             | 40334-69-8                                 |                           |                                    |                           | CUM 100g   |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Lewisite 3                          | [Tris(2-chlorovinyl)arsine]                  | 40334-70-1                                 |                           |                                    |                           | CUM 100g   |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Lithium amide                       |  | 7782-89-0                                  |                           |                                    |                           |  |                           |                     |                 |                      |                      | ACG            | APA         |                  |                        |  | X |
| Lithium nitride                     |  | 26134-62-3                                 |                           |                                    |                           |  |                           |                     |                 |                      |                      | ACG            | APA         |                  |                        |  | X |
| Magnesium (powder)                  |  | 7439-95-4                                  |                           |                                    |                           | ACG  | 100                       |                     |                 |                      |                      |                |             |                  |                        |  | X |
| Magnesium diamide                   |  | 7803-54-5                                  |                           |                                    |                           |  |                           |                     |                 |                      |                      | ACG            | APA         |                  |                        |  | X |
| Magnesium phosphide                 |  | 12057-74-8                                 |                           |                                    |                           |  |                           |                     |                 |                      |                      | ACG            | APA         |                  |                        |  | X |
| MDEA                                | [Methyldiethanolamine]                       | 105-59-9                                   |                           |                                    |                           | 80.00  | 220                       |                     |                 |                      |                      |                |             |                  |                        |  | X |
| Mercury fulminate                   |  | 628-86-4                                   | ACG                       | 5,000                              | ACG                       | 400  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Methacrylonitrile                   | [2-Propenenitrile, 2-methyl-]                | 126-98-7                                   | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Methane                             |  | 74-82-8                                    | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| 2-Methyl-1-butene                   |  | 563-46-2                                   | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| 3-Methyl-1-butene                   |  | 563-45-1                                   | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Methyl chloride                     | [Methane, chloro-]                           | 74-87-3                                    | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Methyl chloroformate                | [Carbonochloridic acid, methyl ester]        | 79-22-1                                    | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Methyl ether                        | [Methane, oxybis-]                           | 115-10-6                                   | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |
| Methyl formate                      | [Formic acid Methyl ester]                   | 107-31-3                                   | 1.00                      | 10,000                             |                           |  |                           |                     |                 |                      |                      |                |             | X                |                        |  |   |











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| Chemicals of Interest<br>(COI) | Synonym   | Chemical<br>Abstract<br>Service<br>(CAS) # | Release                   |   | Theft                     |   | Sabotage                  |                                   | Security Issue  |                      |                      |                |             |                  |                        |  |   |
|--------------------------------|---|--|---------------------------|---|---------------------------|---|---------------------------|-----------------------------------|-----------------|----------------------|----------------------|----------------|-------------|------------------|------------------------|--|---|
|                                |   |  | Minimum Concentration (%) | Screening Threshold<br>Quantities (in pounds) | Minimum Concentration (%) | Screening Threshold<br>Quantities (in pounds unless<br>otherwise noted) | Minimum Concentration (%) | Screening Threshold<br>Quantities | Release - Toxic | Release - Flammables | Release - Explosives | Theft - CW/CWP | Theft - WME | Theft - EXP/IEDP | Sabotage/Contamination |  |   |
| Vinyl acetate monomer          | [Acetic acid ethenyl ester]                                     | 108-05-4                                   | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinyl acetylene                | [1-Buten-3-yne]   | 689-97-4                                   | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinyl chloride                 | [Ethene, chloro-]   | 75-01-4                                    | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinyl ethyl ether              | [Ethene, ethoxy-]   | 109-92-2                                   | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinyl fluoride                 | [Ethene, fluoro-]   | 75-02-5                                    | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinyl methyl ether             | [Ethene, methoxy-]  | 107-25-5                                   | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinylidene chloride            | [Ethene, 1,1-dichloro-]   | 75-35-4                                    | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinylidene fluoride            | [Ethene, 1,1-difluoro-]   | 75-38-7                                    | 1.00                      | 10,000  |                           |   |                           |                                   |                 | X                    |                      |                |             |                  |                        |  |   |
| Vinyltrichlorosilane           |   | 75-94-5                                    |                           |   |                           |   |                           | ACG                               | APA             |                      |                      |                |             |                  |                        |  | X |
| VX                             | [o-Ethyl-S-2-diisopropylaminoethyl<br>methyl phosphonothiolate] | 50782-69-9                                 |                           |   |                           | CUM 100g  |                           |                                   |                 |                      |                      |                |             |                  |                        |  |   |
| Zinc hydrosulfite              | [Zinc dithionite]   | 7779-86-4                                  |                           |   |                           |   |                           | ACG                               | APA             |                      |                      |                |             |                  |                        |  | X |

<sup>1</sup> The acronyms used in this appendix have the following meaning: ACG = A Commercial Grade; APA = A Placarded Amount; CW/CWP = Chemical Weapons/Chemical Weapons Precursors; WME = Weapons of Mass Effect; EXP/IEDP = Explosives/Improvised Explosive Device Precursors

**Michael Chertoff,**

*Secretary of Homeland Security, Department  
of Homeland Security.*

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