

# Appendix A Inventory

## Chemistry

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## General Chemicals

| No. | Listed Chemical                                         | Min. Conc.¹     | Amount | Unit |
|-----|---------------------------------------------------------|-----------------|--------|------|
| 1   | Aluminum (powder)                                       | CG <sup>2</sup> |        |      |
| 2   | Ammonium nitrate                                        | CG              |        |      |
| 3   | Ammonium nitrate, solid ( ≥ 23% nitrogen)               | 33%             |        |      |
| 4   | Arsenic trichloride                                     | 30%             |        |      |
| 5   | Arsine                                                  | 0.67%           |        |      |
| 6   | Boron tribromide                                        | 12.67%          |        |      |
| 7   | Boron trichloride                                       | 84.70%          |        |      |
| 8   | Boron trifluoride                                       | 26.87%          |        |      |
| 9   | Bromine chloride                                        | 9.67%           |        |      |
| 10  | Bromine trifluoride                                     | 6%              |        |      |
| 11  | Carbonyl fluoride                                       | 12%             |        |      |
| 12  | Chlorine                                                | 9.77%           |        |      |
| 13  | Chlorine pentafluoride                                  | 4.07%           |        |      |
| 14  | Chlorine trifluoride                                    | 9.97%           |        |      |
| 15  | Cyanogen                                                | 11.67%          |        |      |
| 16  | Cyanogen chloride                                       | 2.67%           |        |      |
| 17  | Diborane                                                | 2.67%           |        |      |
| 18  | Dichlorosilane                                          | 10.47%          |        |      |
| 19  | N,N-(2-diethylamino)ethanethiol                         | 30%             |        |      |
| 20  | o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate | 30%             |        |      |
| 21  | Diethyl methylphosphonite                               | 30%             |        |      |
| 22  | N,N-Diethyl phosphoramidic dichloride                   | 30%             |        |      |
| 23  | N,N-(2-diisopropylamino)ethanethiol                     | 30%             |        |      |
| 24  | N,N-Diisopropyl phosphoramidic dichloride               | 30%             |        |      |
| 25  | N,N-(2-dimethylamino)ethanethiol                        | 30%             |        |      |
| 26  | N,N-Dimethyl phosphoramidic dichloride                  | 30%             |        |      |
| 27  | Dinitrogen tetroxide                                    | 30%             |        |      |
| 28  | N,N-(2-dipropylamino)ethanethiol                        | 30%             |        |      |
| 29  | N,N-Dipropyl phosphoramidic dichloride                  | 30%             |        |      |
| 30  | Ethyl diethanolamine                                    | 80%             |        |      |
| 31  | Ethylphosphonothioic dichloride                         | 30%             |        |      |
| 32  | Fluorine                                                | 6.17%           |        |      |
| 33  | Germane                                                 | 20.73%          |        |      |

| No. | Listed Chemical                     | Min. Conc.¹ | Amount | Unit        |
|-----|-------------------------------------|-------------|--------|-------------|
| 34  | Germanium tetrafluoride             | 2.11%       |        |             |
| 35  | Hexafluoroacetone                   | 15.67%      |        |             |
| 36  | Hydrogen cyanide                    | 4.67%       |        |             |
| 37  | Hydrogen fluoride (anhydrous)       | 42.53%      |        |             |
| 38  | Hydrogen peroxide                   | 35%         |        |             |
| 39  | Hydrogen selenide                   | 0.07%       |        |             |
| 40  | Hydrogen sulfide                    | 23.73%      |        |             |
| 41  | Isopropylphosphonothioic dichloride | 30%         |        |             |
| 42  | Magnesium (powder)                  | CG          |        |             |
| 43  | Methylchlorosilane                  | 20%         |        |             |
| 44  | Methylphosphonothioic dichloride    | 30%         |        |             |
| 45  | Nitric acid                         | 68%         | 250    | milliliters |
| 46  | Nitric oxide                        | 3.83%       |        |             |
| 47  | Nitrobenzene                        | CG          |        |             |
| 48  | Nitrogen trioxide                   | 3.83%       |        |             |
| 49  | Nitrosyl chloride                   | 1.17%       |        |             |
| 50  | Oxygen difluoride                   | 0.09%       |        |             |
| 51  | Perchloryl fluoride                 | 25.67%      |        |             |
| 52  | Phosgene                            | 0.17%       |        |             |
| 53  | Phosphine                           | 0.67%       |        |             |
| 54  | Phosphorus trichloride              | 3.48%       |        |             |
| 55  | Potassium nitrate                   | AC          |        |             |
| 56  | Potassium permanganate              | AC          |        |             |
| 57  | Propylphosphonothioic dichloride    | 30%         |        |             |
| 58  | Selenium hexafluoride               | 1.67%       |        |             |
| 59  | Silicon tetrafluoride               | 15%         |        |             |
| 60  | Sodium nitrate                      | CG          |        |             |
| 61  | Stibine                             | 0.67%       |        |             |
| 62  | Sulfur tetrafluoride                | 1.33%       |        |             |
| 63  | Tellurium hexafluoride              | 0.83%       |        |             |
| 64  | Thiodiglycol                        | 30%         |        |             |
| 65  | Triethanolamine                     | 80%         |        |             |
| 66  | Trifluoroacetyl chloride            | 6.93%       |        |             |
| 67  | Tungsten hexafluoride               | 7.10%       |        |             |

| Chemical Weapons and Chemical Weapons Precursors |                                      |             |        |      |
|--------------------------------------------------|--------------------------------------|-------------|--------|------|
| No.                                              | Listed Chemical                      | Min. Conc.¹ | Amount | Unit |
| 1                                                | 1,4-Bis(2-chloroethylthio)-n-butane  | AC³         |        |      |
| 2                                                | Bis(2-chloroethylthio)methane        | AC          |        |      |
| 3                                                | Bis(2-chloroethylthiomethyl)ether    | AC          |        |      |
| 4                                                | 1,5-Bis(2-chloroethylthio)-n-pentane | AC          |        |      |
| 5                                                | 1,3-Bis(2-chloroethylthio)-n-propane | AC          |        |      |
| 6                                                | 2-Chloroethylchloro-methylsulfide    | AC          |        |      |
| 7                                                | Chlorosarin                          | AC          |        |      |
| 8                                                | Chlorosoman                          | AC          |        |      |
| 9                                                | DF                                   | AC          |        |      |
| 10                                               | Ethyl phosphonyl difluoride          | AC          |        |      |
| 11                                               | HN1 (nitrogen mustard-1)             | AC          |        |      |

| No. | Listed Chemical                  | Min. Conc. <sup>1</sup> | Amount | Unit |
|-----|----------------------------------|-------------------------|--------|------|
| 12  | HN2 (nitrogen mustard-2)         | AC                      |        |      |
| 13  | HN3 (nitrogen mustard-3)         | AC                      |        |      |
| 14  | Isopropylphosphonyl difluoride   | AC                      |        |      |
| 15  | Lewisite 1                       | AC                      |        |      |
| 16  | Lewisite 2                       | AC                      |        |      |
| 17  | Lewisite 3                       | AC                      |        |      |
| 18  | Nitrogen mustard hydrochloride   | 30.00%                  |        |      |
| 19  | Sulfur mustard (Mustard gas (H)) | AC                      |        |      |
| 20  | O-Mustard (T)                    | AC                      |        |      |
| 21  | Propylphosphonyl difluoride      | AC                      |        |      |
| 22  | QL                               | AC                      |        |      |
| 23  | Sarin                            | AC                      |        |      |
| 24  | Sesquimustard                    | AC                      |        |      |
| 25  | Soman                            | AC                      |        |      |
| 26  | Tabun                            | AC                      |        |      |
| 27  | VX                               | AC                      |        |      |

**(1) Minimum Concentration:** Do not report the listed chemical if below minimum concentration.

**(2) Commercial Grade:** Report any concentration of the listed chemical offered for commercial sale.

**(3) Any Concentration:** Report any concentrations of the listed chemical.