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10 – 13 October 2017

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13 October 2017  
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## DECISION

### LISTS OF NEW VALIDATED DATA OF NON-SCHEDULED CHEMICALS FOR APPROVAL BY THE EXECUTIVE COUNCIL FOR INCLUSION IN THE OPCW CENTRAL ANALYTICAL DATABASE

**The Executive Council,**

**Recalling** that, at its Second Session, the Conference of the States Parties, acting upon the recommendation of the Executive Council (hereinafter “the Council”) at its Fourth Session, adopted the decision on “Proposed Mechanism for Updating the OPCW Central Analytical Database” (EC-IV/DEC.2, dated 5 September 1997) (subparagraph 11.2(c) of C-II/8, dated 5 December 1997);

**Also recalling** that the Director-General established a Validation Group (hereinafter “the Group”) to evaluate new data proposed for inclusion in that database, and that, at its Forty-Fourth Meeting, on 28 and 29 September 2016, and at its Forty-Fifth Meeting, on 29 and 30 March 2017, the Group forwarded the lists of validated analytical data of non-scheduled chemicals relevant to the Chemical Weapons Convention (hereinafter “the Convention”), with their justification statements, to the Director-General for appropriate action (S/1433/2016, dated 7 November 2016, and S/1498/2017, dated 15 May 2017);

**Recalling further** that the Director-General has forwarded to the Council for consideration at its Eighty-Sixth Session the Note, “Lists of New Validated Data of Non-Scheduled Chemicals for Approval by the Executive Council for Inclusion in the OPCW Central Analytical Database” (EC-84/DG.13/Rev.2, dated 11 October 2017);

**Recalling further** that the use of data of non-scheduled chemicals during inspections is subject to the inspected State Party’s agreement, in accordance with paragraph 3 of EC-84/DG.13/Rev.2, and C-I/DEC.64, dated 22 May 1997 and Corr.1, dated 13 October 1997;

**Bearing in mind** that the Verification Division made available to Member States, upon request, copies of the validated mass spectrometry (MS) and gas chromatography (retention index) (GC(RI)) data listed in the Annex to the above-mentioned Note (EC-84/DG.13/Rev.2) and that, in accordance with the mechanism referred to in the first paragraph above, any State Party that had concerns about the proposed inclusion in the OPCW Central Analytical Database (OCAD) of any data contained in the Annex to that Note had the opportunity to make their concerns known to the Technical Secretariat (hereinafter “the Secretariat”) before the Eighty-Fifth Session of the Council;

**Also bearing in mind** that no concerns in relation to the proposed inclusion in the OCAD of any of the data, which is annexed hereto and which is listed in the Annex to the



above-mentioned Note, were communicated to the Secretariat before the Eighty-Fifth Session of the Council; and

**Further bearing in mind** that the States Parties can raise their concerns for consideration by the Secretariat and Council about inclusion in the OCAD of any of the data annexed to this decision;

**Hereby:**

1. **Approves** the inclusion in the OCAD of the lists of validated data annexed hereto; and
2. **Recognises** that the use of data of non-scheduled chemicals relevant to the Convention during inspections is subject to the inspected State Party's agreement, in accordance with paragraph 3 of EC-84/DG.13/Rev.2, and C-I/DEC.64 and Corr.1.

Annex (English only): Lists of Validated Data of Non-Scheduled Chemicals Relevant to the Chemical Weapons Convention

## Annex

**LISTS OF VALIDATED DATA OF NON-SCHEDULED CHEMICALS  
RELEVANT TO THE CHEMICAL WEAPONS CONVENTION**

**TABLE 1: LIST OF VALIDATED DATA OF NON-SCHEDULED DEGRADATION PRODUCTS AND/OR KNOWN SYNTHESIS IMPURITIES OR BY-PRODUCTS RELATED TO SCHEDULES 1.A.01 AND 1.A.02**

OPCW Code(s)	Chemical Name	Justification
08-4-0085 08-2-0109	Isopropyl trimethylsilyl N,N-diethylphosphoramidate	TMS derivative of isopropyl N,N-diethylphosphoramidate: hydrolysis product of isopropyl N,N-diethylphosphoroamidocyanidate 1.A.02
08-4-0086 08-2-0110	Isopropyl trimethylsilyl N,N-dipropylphosphoramidate	TMS derivative of isopropyl N,N-dipropylphosphoramidate: hydrolysis product of isopropyl N,N-dipropylphosphoroamidocyanidate 1.A.02
08-4-0084 08-2-0108	Methyl trimethylsilyl N,N-diethylphosphoramidate	TMS derivative of methyl N,N-diethylphosphoramidate: hydrolysis product of methyl N,N-diethyl phosphoroamidocyanidate 1.A.02
08-4-0079 08-2-0103	Methyl trimethylsilyl N,N-dipropylphosphoramidate	TMS derivative of methyl N,N-dipropylphosphoramidate: hydrolysis product of methyl N,N-dipropyl phosphoroamidocyanidate 1.A.02
08-4-0091 08-2-0115	Ethyl trimethylsilyl N,N-diethylphosphoramidate	TMS derivative of ethyl N,N-diethylphosphoramidate, hydrolysis product of ethyl N,N-diethylphosphoroamidocyanidate 1.A.02

**TABLE 2: LIST OF VALIDATED DATA OF NON-SCHEDULED DEGRADATION PRODUCTS AND/OR KNOWN SYNTHESIS IMPURITIES OR BY-PRODUCTS RELATED TO SCHEDULE 1.A.03**

OPCW Code(s)	Chemical Name	Justification
07-4-2935 24-4-0002r 07-2-3172	Bis(2-N,N-diethylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2940 07-2-3177	(2-N,N-Diethylaminoethyl)(2-N,N-diisopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2885 07-2-3122	(2-N,N-Diethylaminoethyl)(2-N,N-diisopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

OPCW Code(s)	Chemical Name	Justification
07-4-2905 07-2-3142	(2-N,N-Diethylaminoethyl)(2-N,N-dimethylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2938 07-2-3175	(2-N,N-Diethylaminoethyl)(2-N,N-dipropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2883 07-2-3120	(2-N,N-Diethylaminoethyl)(2-N,N-dipropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2937 07-2-3174	(2-N,N-Diethylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2882 07-2-3119	(2-N,N-Diethylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2914 07-2-3151	(2-N,N-Diethylaminoethyl)(2-N-ethyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2859 07-2-3096	(2-N,N-Diethylaminoethyl)(2-N-ethyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2936 07-2-3173	(2-N,N-Diethylaminoethyl)(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2881 07-2-3118	(2-N,N-Diethylaminoethyl)(2-N-ethyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2929 07-2-3166	(2-N,N-Diethylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2874 07-2-3111	(2-N,N-Diethylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2939 07-2-3176	(2-N,N-Diethylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2884 07-2-3121	(2-N,N-Diethylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2922 07-2-3159	(2-N,N-Diethylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2867 07-2-3104	(2-N,N-Diethylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

OPCW Code(s)	Chemical Name	Justification
07-4-2910 07-2-3147	(2-N,N-Diisopropylaminoethyl)(2-N,N-dimethylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2855 07-2-3092	(2-N,N-Diisopropylaminoethyl)(2-N,N-dimethylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2897 07-2-3134	(2-N,N-Diisopropylaminoethyl)(2-N,N-dipropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2949 07-2-3186	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2894 07-2-3131	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2919 07-2-3156	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2864 07-2-3101	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2945 07-2-3182	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2890 07-2-3127	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2934 07-2-3171	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2879 07-2-3116	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2954 07-2-3191	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2899 07-2-3136	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2927 07-2-3164	(2-N,N-Diisopropylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2872 07-2-3109	(2-N,N-Diisopropylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

OPCW Code(s)	Chemical Name	Justification
07-4-2850 07-2-3087	(2-N,N-Dimethylaminoethyl)(2-N,N-Diethylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2908 07-2-3145	(2-N,N-Dimethylaminoethyl)(2-N,N-dipropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2853 07-2-3090	(2-N,N-Dimethylaminoethyl)(2-N,N-dipropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2907 07-2-3144	(2-N,N-Dimethylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2852 07-2-3089	(2-N,N-Dimethylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2902 07-2-3139	(2-N,N-Dimethylaminoethyl)(2-N-ethyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2847 07-2-3084	(2-N,N-Dimethylaminoethyl)(2-N-ethyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2906 07-2-3143	(2-N,N-Dimethylaminoethyl)(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2851 07-2-3088	(2-N,N-Dimethylaminoethyl)(2-N-ethyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2904 07-2-3141	(2-N,N-Dimethylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2849 07-2-3086	(2-N,N-Dimethylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2909 07-2-3146	(2-N,N-Dimethylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2854 07-2-3091	(2-N,N-Dimethylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2903 07-2-3140	(2-N,N-Dimethylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2848 07-2-3085	(2-N,N-Dimethylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

OPCW Code(s)	Chemical Name	Justification
07-4-2947 07-2-3184	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2892 07-2-3129	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-isopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2917 07-2-3154	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2862 07-2-3099	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2943 07-2-3180	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2888 07-2-3125	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2932 07-2-3169	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2877 07-2-3114	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2951 07-2-3188	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2896 07-2-3133	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2925 07-2-3162	(2-N,N-Dipropylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2916 07-2-3153	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2861 07-2-3098	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2942 07-2-3179	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2887 07-2-3124	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
07-4-2931 07-2-3168	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2876 07-2-3113	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2948 07-2-3185	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2893 07-2-3130	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2924 07-2-3161	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2869 07-2-3106	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2915 07-2-3152	(2-N-Ethyl-N-methylaminoethyl)(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2860 07-2-3097	(2-N-Ethyl-N-methylaminoethyl)(2-N-ethyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2913 07-2-3150	(2-N-Ethyl-N-methylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2858 07-2-3095	(2-N-Ethyl-N-methylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2918 07-2-3155	(2-N-Ethyl-N-methylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2863 07-2-3100	(2-N-Ethyl-N-methylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2912 07-2-3149	(2-N-Ethyl-N-methylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2857 07-2-3094	(2-N-Ethyl-N-methylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2930 07-2-3167	(2-N-Ethyl-N-propylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis



<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
07-4-2875 07-2-3112	(2-N-Ethyl-N-propylaminoethyl)(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2944 07-2-3181	(2-N-Ethyl-N-propylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2889 07-2-3126	(2-N-Ethyl-N-propylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2923 07-2-3160	(2-N-Ethyl-N-propylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2868 07-2-3105	(2-N-Ethyl-N-propylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2933 07-2-3170	(2-N-Isopropyl-N-methylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2878 07-2-3115	(2-N-Isopropyl-N-methylaminoethyl)(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2921 07-2-3158	(2-N-Isopropyl-N-methylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2866 07-2-3103	(2-N-Isopropyl-N-methylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2926 07-2-3163	(2-N-Isopropyl-N-propylaminoethyl)(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2871 07-2-3108	(2-N-Isopropyl-N-propylaminoethyl)(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2952 07-2-3189	(2-N,N-Diisopropylaminoethyl)(2-N,N-Dipropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2870 07-2-3107	(2-N,N-Dipropylaminoethyl)(2-N-Methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2880 24-4-0001r 07-2-3117	Bis(2-N,N-diethylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
07-4-2955 24-4-0004r 07-2-3192	Bis(2-N,N-diisopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2900 24-4-0003r 07-2-3137 24-2-0031	Bis(2-N,N-diisopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2901 24-4-0006r 07-2-3138	Bis(2-N,N-dimethylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2846 07-2-3083 24-2-0033	Bis(2-N,N-dimethylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2950 24-4-0008r 07-2-3187 24-2-0036	Bis(2-N,N-dipropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2895 24-4-0007r 07-2-3132	Bis(2-N,N-dipropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2946 07-2-3183	Bis(2-N-ethyl-N-isopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2891 07-2-3128	Bis(2-N-ethyl-N-isopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2911 07-2-3148	Bis(2-N-ethyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2856 07-2-3093	Bis(2-N-ethyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2941 07-2-3178	Bis(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
07-4-2886 07-2-3123	Bis(2-N-ethyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2928 07-2-3165	Bis(2-N-isopropyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2873 07-2-3110	Bis(2-N-isopropyl-N-methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2953 07-2-3190	Bis(2-N-isopropyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2898 07-2-3135	Bis(2-N-isopropyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2920 07-2-3157	Bis(2-N-methyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2865 07-2-3102	Bis(2-N-methyl-N-propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2796 07-2-3033	N,N-Dimethyl-N-(2-trimethylsilyloxyethyl)amine	TMS derivative of N,N-dimethylaminoethanol. Exempted in 2.B.11 but a degradation product of 1.A.03 chemicals
08-4-0076 08-2-0101	Trimethylsilyl N,N-diethylaminoethyl-2-sulfonate	TMS derivative of N,N-diethylaminoethyl-2-sulfonate: degradation product of 2-(N,N-diethylamino)ethanethiol which is associated with schedule 1.A.03
08-4-0077 08-2-0102	Trimethylsilyl N,N-diisopropylaminoethyl-2-sulfonate	TMS derivative of N,N-diisopropylaminoethyl-2-sulfonate: degradation product of 2-(N,N-diisopropylamino)ethanethiol which is associated with schedule 1.A.03
08-4-0075 08-2-0100	Trimethylsilyl N,N-dimethylaminoethyl-2-sulfonate	TMS derivative of N,N-dimethylaminoethyl-2-sulfonate: degradation product of 2-(N,N-dipropylamino)ethanethiol which is associated with schedule 1.A.03
07-4-2836 07-2-3073	N,N-Dimethylaminoethanol	Exemption in schedule 2.B.11 but a degradation product of 1.A.03 chemicals
07-4-2840 07-2-3077	N,N-Diethylaminoethanol	Exemption in schedule 2.B.11 but a degradation product of 1.A.03 chemicals
07-4-2800 07-2-3037	N,N-Diethyl-N-(2-trimethylsilyloxyethyl)amine	TMS derivative of N,N-diethylaminoethanol. Exempted in 2.B.11 but a degradation product of 1.A.03

**TABLE 3: LIST OF VALIDATED DATA OF NON-SCHEDULED DEGRADATION PRODUCTS AND/OR KNOWN SYNTHESIS IMPURITIES OR BY-PRODUCTS RELATED TO SCHEDULE 1.A.04**

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
17-4-0077 24-4-0018r 17-2-0102 25-2-0005	Divinylsulfone	Degradation product of sulfur mustard 1.A.04
17-4-0076 24-4-0017r 17-2-0101 24-2-0041	Divinylsulfoxide	Degradation product of sulfur mustard 1.A.04
24-4-0013r 24-2-0039	N-(2-Trimethylsilyloxyethyl)thiomorpholine	TMS derivative of N-(2-hydroxyethyl)thiomorpholine (a reaction product of sulfur mustard 1.A.04 with a decon reagent: monoethanolamine)
24-4-0012r 24-2-0038	N-(2-Hydroxyethyl)thiomorpholine	Reaction product of sulfur mustard 1.A.04 with a decon reagent: monoethanolamine
24-4-0010r 25-2-0001	1,4-Dithiane	Impurity in sulfur mustard 1.A.04
24-4-0011r 25-2-0002	1,4-Oxathiane	Impurity in sulfur mustard 1.A.04
24-4-0009r 24-2-0037	2-Chloroethyl 2-hydroxyethyl sulfide	Hydrolysis product of sulfur mustard 1.A.04
24-4-0019r 24-2-0042	2-Chloroethyl vinyl sulfide	Degradation product of sulfur mustard 1.A.04
17-4-0071 24-4-0021r 17-2-0096 24-2-0044	2-Chloroethyl vinyl sulfone	Degradation product of sulfur mustard 1.A.04

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
17-4-0070 24-4-0020r 17-2-0095 24-2-0043	2-Chloroethyl vinyl sulfoxide	Degradation product of sulfur mustard 1.A.04
17-4-0069 17-2-0094	2-Chloroethylthioethyl 2-chloroethylidithioethyl ether	Analogue of bis(2-chloroethylthioethyl)ether (O-Mustard). Known impurity in synthesis associated with 1.A.04
24-4-0041r 24-2-0060	1,3-Bis(2-trimethylsilyloxyethylsulfonyl)propane	TMS derivative of 1,3-bis(2-hydroxyethylsulfonyl)propane a degradation product of 1,3-bis(2-chloroethylthio)propane 1.A.04
17-4-0073 24-4-0016r 17-2-0098 25-2-0004	Bis(2-chloroethyl)sulfone	Oxidation product of sulfur mustard 1.A.04
17-4-0074 24-4-0015r 17-2-0099	Bis(2-chloroethyl)sulfoxide	Oxidation product of sulfur mustard 1.A.04
24-4-0022r 24-2-0045	2-Hydroxyethyl vinyl sulfide	Degradation product of sulfur mustard 1.A.04
24-4-0024r 24-2-0047	2-Hydroxyethyl vinyl sulfone	Degradation product of sulfur mustard 1.A.04
24-4-0035r 24-2-0054	1,2-Bis(2-trimethylsilyloxyethylsulfonyl)ethane	TMS derivative of 1,2-bis(2-hydroxyethylsulfonyl)ethane, degradation product of 1,2-bis(2-chloroethylthio)ethane (sesquimustard) 1.A.04
25-2-0020	1,2-Bis(2-trimethylsilyloxyethylthio)ethane	TMS derivative of 1,2-bis(2-hydroxyethylthio)ethane, hydrolysis product of 1,2-bis(2-chloroethylthio)ethane (sesquimustard) 1.A.04
24-4-0033r 25-2-0023	Bis(2-trimethylsilyloxyethyl)sulfone	TMS derivative of bis(2-hydroxyethyl)sulfone, degradation product of bis(2-hydroxyethyl)sulfide (thiodiglycol) 2.B.13
24-4-0032r 08-2-0124	Bis(2-trimethylsilyloxyethyl)sulfoxide	TMS derivative of bis(2-hydroxyethyl)sulfoxide, degradation product of bis(2-hydroxyethyl)sulfide (thiodiglycol) 2.B.13
24-4-0039r 24-2-0058	Bis(2-trimethylsilyloxyethylsulfonyl)methane	TMS derivative of bis(2-hydroxyethylsulfonyl)methane, degradation product of bis(2-chloroethylthio)methane 1.A.04

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
24-4-0026r 25-2-0021	Bis(2-trimethylsilyloxyethylthioethyl)ether	TMS derivative of bis(2-hydroxyethylthioethyl)ether, hydrolysis product of bis(2-chloroethylthioethyl)ether (O-mustard) 1.A.04
24-4-0031r 24-2-0052	Bis(2-trimethylsilyloxyethylthiomethyl)ether	TMS derivative of bis(2-hydroxyethylthiomethyl)ether, hydrolysis product of bis(2-chloroethylthiomethyl)ether 1.A.04
24-4-0029r 08-4-0156 08-2-0188	1,4-Bis(2-trimethylsilyloxyethylthio)butane	TMS derivative of 1,4-bis(2-hydroxyethylthio)butane, hydrolysis product of 1,4-bis(2-chloroethylthio)butane 1.A.04
24-4-0045r 24-2-0064	1,5-Bis(2-trimethylsilyloxyethylsulfonyl)pentane	TMS derivative of 1,5-bis(2-hydroxyethylsulfonyl)pentane, degradation product of 1,5-bis(2-chloroethylthio)pentane 1.A.04

**TABLE 4: LIST OF VALIDATED DATA OF RIOT CONTROL AGENTS**

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
16-4-0047 19-4-0007 16-2-0018	2-Chloroacetophenone	Riot control agent (code CN) On list of declared riot control agents compiled by the OPCW (S/1177/2014)
19-4-0009 08-2-0133 24-2-0076	2-Chlorobenzylidene malononitrile	Riot control agent (code CS) On list of declared riot control agents compiled by the OPCW (S/1177/2014)
24-4-0056r 25-2-0017	Capsaicin	Riot control agent (component of pepper spray). On list of declared riot control agents compiled by the OPCW (S/1177/2014)
19-4-0010 24-2-0077	Dibenz[b,f][1,4]oxazepine	Riot control agent (code CR) On list of declared riot control agents compiled by the OPCW (S/1177/2014)
24-4-0057r 25-2-0018	Pelargonic acid vanillylamide	Riot control agent (component of pepper spray). On list of declared riot control agents compiled by the OPCW (S/1177/2014)

**TABLE 5: LIST OF VALIDATED DATA OF NON-SCHEDULED CHEMICALS REQUIRED TO REMOVE FALSE POSITIVES IN SCHEDULE 2.B.11 INSPECTIONS**

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
07-4-2840 07-2-3077	N,N-Diethylaminoethanol	Exemption in schedule 2.B.11 but a known false positive of other 2.B.11 chemicals
07-4-2800 07-2-3037	N,N-Diethyl-N-(2-trimethylsilyloxyethyl)amine	TMS derivative of N,N-diethylaminoethanol. Exempted in 2.B.11 but a known false positive of other 2.B.11 chemicals

**TABLE 6: LIST OF VALIDATED DATA OF NON-SCHEDULED CHEMICALS REQUIRED TO REMOVE FALSE POSITIVES IN SCHEDULE 2.B.12 INSPECTIONS**

<b>OPCW Code(s)</b>	<b>Chemical Name</b>	<b>Justification</b>
07-4-2880 24-4-0001r 07-2-3117	Bis(2-N,N-diethylaminoethyl)sulfide	A known false positive for a 1.A.03 chemical
07-4-2900 24-4-0003r 07-2-3137 24-2-0031	Bis(2-N,N-diisopropylaminoethyl)sulfide	A known false positive for a 1.A.03 chemical
07-4-2846 07-2-3083 24-2-0033	Bis(2-N,N-dimethylaminoethyl)sulfide	A known false positive for a 1.A.03 chemical

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