



Eighty-Fifth Session 11 – 14 July 2017

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DRAFT 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, 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-Fifth 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.1, dated 19 May 2017);

Recalling further that the use of data of non-scheduled chemicals during inspections is subject to negotiation between the inspection team and the inspected State Party, in accordance with paragraph 3 of EC-84/DG.13/Rev.1;

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.1) 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; and

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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;

Hereby:

Approves the inclusion in the OCAD of the lists of validated data annexed hereto.

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 phosphoramidocyanidate 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 phosphoramidocyanidate 1.A.02
08-4-0091 08-2-0115	Ethyl trimethylsilyl N,N-diethylphosphoramidate	TMS derivative of ethyl N,N-diethylphosphoramidate, hydrolyis 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

		Justification Known impurity and/or degradation product associated with 1.A.03 synthesis 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	Chemical Name	Justification
Code(s)		
07-4-2910	(2-N,N-Diisopropylaminoethyl)(2-N,N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3147	dimethylaminoethyl)disulfide	
07-4-2855 07-2-3092	(2-N,N-Diisopropylaminoethyl)(2-N,N-dimethyllominoethyl)	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3092	dimethylaminoethyl)sulfide (2-N,N-Diisopropylaminoethyl)(2-N,N-	
07-4-2897	dipropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2949	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-	
07-2-3186	isopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2894	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-	
07-2-3131	isopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2919	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-	
07-2-3156	methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2864	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-	
07-2-3101	methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2945	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-	Who was impossible and/or do anodation much set accorded with 1 A O2 assethania
07-2-3182	propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2890	(2-N,N-Diisopropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3127	propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2934	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3171	methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2879	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3116	methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.71.03 synthesis
07-4-2954	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3191	propylaminoethyl)disulfide	Tknown imparity and of degradation product associated with 1.71.05 synthesis
07-4-2899	(2-N,N-Diisopropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3136	propylaminoethyl)sulfide	This will impurity used of degradation product associated with in nos symmesis
07-4-2927	(2-N,N-Diisopropylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3164	propylaminoethyl)disulfide	
07-4-2872	(2-N,N-Diisopropylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3109	propylaminoethyl)sulfide	
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		Justification Known impurity and/or degradation product associated with 1.A.03 synthesis 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	Chemical Name	Justification
Code(s)		Justification
07-4-2947	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3184	isopropylaminoethyl)disulfide	The war impurity and or degradation produce associated with 10 not symmetric
07-4-2892	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3129	isopropylaminoethyl)sulfide	The war impurity and or degradation produce associated with 10 not symmetric
07-4-2917	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3154	methylaminoethyl)disulfide	The war impurity and or degradation produce associated with 10 not symmetric
07-4-2862	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3099	methylaminoethyl)sulfide	This will impurity und of degradation product associated with 11 nos symmests
07-4-2943	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3180	propylaminoethyl)disulfide	Thiowir impurity und of degradation product associated with 1.7 nos synthesis
07-4-2888	(2-N,N-Dipropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3125	propylaminoethyl)sulfide	TKHOWH Impurity und/or degradation product associated with 1.7 k. 05 synthesis
07-4-2932	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3169	methylaminoethyl)disulfide	TKHOWH Impurity und/or degradation product associated with 1.7 k. 05 synthesis
07-4-2877	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3114	methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.71.05 synthesis
07-4-2951	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3188	propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.71.03 synthesis
07-4-2896	(2-N,N-Dipropylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3133	propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2925	(2-N,N-Dipropylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3162	propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2916	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3153	methylamino)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2861	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3098	methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2942	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-	Vnovyn immyrity and/or dogradation madvat associated with 1 A 02 symthosis
07-2-3179	propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2887	(2-N-Ethyl-N-isopropylaminoethyl)(2-N-ethyl-N-	Warner in a series and the series are series are series and the series are series and the series are series are series and the series are series are series are series are series are series and the series are series are series are series are series
07-2-3124	propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3124	propylaminoethyl)sulfide	Annex page 7

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OPCW Code(s)	Chemical Name	Justification
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

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Code(s)	Chemical Name	Justification
07-4-2875	(2-N-Ethyl-N-propylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3112	methylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2944	(2-N-Ethyl-N-propylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3181	propylaminoethyl)disulfide	Triown impurity und/or degradation product associated with 1.74.05 synthesis
07-4-2889	(2-N-Ethyl-N-propylaminoethyl)(2-N-isopropyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3126	propylaminoethyl)sulfide	This will impurity und of degradation product associated with Thines synthesis
07-4-2923	(2-N-Ethyl-N-propylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3160	propylaminoethyl)disulfide	This will impurity und of degradation product associated with things synthesis
07-4-2868	(2-N-Ethyl-N-propylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3105	propylaminoethyl)sulfide	Tano wa map aray and a a gradula a product associated with the role of mineral
07-4-2933	(2-N-Isopropyl-N-methylaminoethyl)(2-N-isopropyl-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3170	N-propylaminoethyl)disulfide	Triown impurity und/or degradation product associated with 1.74.05 synthesis
07-4-2878	(2-N-Isopropyl-N-methylaminoethyl)(2-N-isopropyl-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3115	N-propylaminoethyl)sulfide	Triown impurity und/or degradation product associated with 1.74.05 synthesis
07-4-2921	(2-N-Isopropyl-N-methylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3158	propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.74.05 synthesis
07-4-2866	(2-N-Isopropyl-N-methylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3103	propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.74.05 synthesis
07-4-2926	(2-N-Isopropyl-N-propylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3163	propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2871	(2-N-Isopropyl-N-propylaminoethyl)(2-N-methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3108	propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2952	(2-N,N-Diisopropylaminoethyl)(2-N,N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3189	Dipropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2870	(2-N,N-Dipropylaminoethyl)(2-N-Methyl-N-	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3107	propylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.05 synthesis
07-4-2880		
24-4-0001r	Bis(2-N,N-diethylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3117		

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OPCW	Chemical Name	Justification
Code(s)		<u> </u>
07-4-2955 24-4-0004r	Bis(2-N,N-diisopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3192	Bis(2-14,14-unsopropyrammoethyr)ursumde	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2900		
24-4-0003r		
07-2-3137	Bis(2-N,N-diisopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
24-2-0031		
07-4-2901		
24-4-0006r	Bis(2-N,N-dimethylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3138		
07-4-2846		Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3083	Bis(2-N,N-dimethylaminoethyl)sulfide	
24-2-0033		
07-4-2950 24-4-0008r		Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3187	Bis(2-N,N-dipropylaminoethyl)disulfide	
24-2-0036		
07-4-2895		
24-4-0007r	Bis(2-N,N-dipropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3132	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
07-4-2946	Bis(2-N-ethyl-N-isopropylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3183	Dis(2-1v-euryi-1v-isopropyrammoeuryi)disumde	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-4-2891	Bis(2-N-ethyl-N-isopropylaminoethyl)sulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3128	Dis(2 iv ediyi iv isopropylanimoediyi)samae	Tailown impurity und/or degradation product associated with 1.71.03 synthesis
07-4-2911	Bis(2-N-ethyl-N-methylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis
07-2-3148		
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		
07-4-2941	Bis(2-N-ethyl-N-propylaminoethyl)disulfide	Known impurity and/or degradation product associated with 1.A.03 synthesis

OPCW Code(s)	Chemical Name	Justification
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

	INITURITIES OR DI-TRODUCTS RELATED TO		_
OPCW	Chemical Name	Justification	
Code(s)			_
17-4-0077			
24-4-0018r	Divinylsulfone	Degradation product of sulfur mustard 1.A.04	
17-2-0102	Brymyisunone	Begindation product of surfar mustard 1.71.01	
25-2-0005			
17-4-0076			
24-4-0017r	Divinylantavida	Decreadation musdoust of cultive mustand 1 A 04	
17-2-0101	Divinylsulfoxide	Degradation product of sulfur mustard 1.A.04	
24-2-0041			
24-4-0013r	N/OT: 4 131 4 104: 13	TMS derivative of N-(2-hydroxyethyl)thiomorpholine (a reaction product of	
24-2-0039	N-(2-Trimethylsilyloxyethyl)thiomorpholine	sulfur mustard 1.A.04 with a decon reagent: monoethanolamine)	
24-4-0012r	N/OH I I I I	Reaction product of sulfur mustard 1.A.04 with a decon reagent:	
24-2-0038	N-(2-Hydroxyethyl)thiomorpholine	monoethanolamine	
24-4-0010r	1.4 Dishiona	Immunity in culting assessment 1 A OA	
25-2-0001	1,4-Dithiane	Impurity in sulfur mustard 1.A.04	
24-4-0011r	1.4 Overhiene	Immunity in gulfun mustand 1 A 04	
25-2-0002	1,4-Oxathiane	Impurity in sulfur mustard 1.A.04	
24-4-0009r	2-Chloroethyl 2-hydroxyethyl sulfide	Hydrolysis product of sulfur mustard 1.A.04	
24-2-0037	2-Chloroethyr 2-nydroxyethyr sumde	Trydrorysis product of sulful mustard 1.A.04	
24-4-0019r	2-Chloroethyl vinyl sulfide	Degradation product of cultur mustard 1 A 04	
24-2-0042	2-Chloroediyi viliyi suifide	Degradation product of sulfur mustard 1.A.04	
17-4-0071			
24-4-0021r	2 Chlana shed wined outform	De anadation and dust of sulfan assets and 1 A 04	
17-2-0096	2-Chloroethyl vinyl sulfone	Degradation product of sulfur mustard 1.A.04	
24-2-0044			

OPCW	Chemical Name	Justification
Code(s)	Chemical Name	Sustincation
17-4-0070		
24-4-0020r	2-Chloroethyl vinyl sulfoxide	Degradation product of sulfur mustard 1.A.04
17-2-0095	2 Cinorocalyr vinyr sunoxide	Degradation product of sairar mastara 1.71.01
24-2-0043		
17-4-0069	2-Chloroethylthioethyl 2-chloroethyldithioethyl ether	Analogue of bis(2-chloroethylthioethyl)ether (O-Mustard).
17-2-0094	2 Chlorochrytanochry 2 chlorochrytaninochry chler	Known impurity in synthesis associated with 1.A.04
24-4-0041r	1,3-Bis(2-trimethylsilyloxyethylsulfonyl)propane	TMS derivative of 1,3-bis(2-hydroxyethylsulfonyl)propane a degradation
24-2-0060	1,5 Dis(2 trimethylshyloxyethylsthollyl)propule	product of 1,3-bis(2-chloroethylthio)propane 1.A.04
17-4-0073		
24-4-0016r	Bis(2-chloroethyl)sulfone	Oxidation product of sulfur mustard 1.A.04
17-2-0098	Bis(2 cinorocary) surrone	Oxidation product of surfar mustard 1.71.01
25-2-0004		
17-4-0074		
24-4-0015r	Bis(2-chloroethyl)sulfoxide	Oxidation product of sulfur mustard 1.A.04
17-2-0099		
24-4-0022r	2-Hydroxyethyl vinyl sulfide	Degradation product of sulfur mustard 1.A.04
24-2-0045	2 Trydroxycuryr vinyr sunrac	Degradation product of surfar mustard 1.71.01
24-4-0024r	2-Hydroxyethyl vinyl sulfone	Degradation product of sulfur mustard 1.A.04
24-2-0047	2 Try drowy cury 1 viny 1 surrone	
24-4-0035r	1,2-Bis(2-trimethylsilyloxyethylsulfonyl)ethane	TMS derivative of 1,2-bis(2-hydroxyethylsulfonyl)ethane, degradation product
24-2-0054	1,2 Dis(2 trimetry isriy to Ny etriy is different inclination of the control of t	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 Dis(2 trimetry isn'y loxy etry teno) etrane	1,2-bis(2-chloroethylthio)ethane (sesquimustard) 1.A.04
24-4-0033r	Bis(2-trimethylsilyloxyethyl)sulfone	TMS derivative of bis(2-hydroxyethyl)sulfone, degradation product of
25-2-0023	Dis(2 trinicity)shrytoxyctry//strione	bis(2-hydroxyethyl)sulfide (thiodiglycol) 2.B.13
24-4-0032r	Bis(2-trimethylsilyloxyethyl)sulfoxide	TMS derivative of bis(2-hydroxyethyl)sulfoxide, degradation product of
08-2-0124	Dis(2-trimethylshyloxyethyl)suhoxide	bis(2-hydroxyethyl)sulfide (thiodiglycol) 2.B.13
24-4-0039r	Bis(2-trimethylsilyloxyethylsulfonyl)methane	TMS derivative of bis(2-hydroxyethyl)sulfoxide, degradation product of bis(2-hydroxyethyl)sulfide (thiodiglycol) 2.B.13 TMS derivative of bis(2-hydroxyethylsulfonyl)methane, degradation product of bis(2-chloroethylthio)methane 1.A.04
24-2-0058	Dis(2-trinicity)strytoxyctry(surrony)/inctrianc	of bis(2-chloroethylthio)methane 1.A.04
		Annex page 13
		pa Pa
		Annex page 13
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		Annex page 14
OPCW Code(s)	Chemical Name	Justification
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

OPCW Code(s)	Chemical Name	Justification
` ′		
16-4-0047	2.611	Riot control agent (code CN)
19-4-0007	2-Chloroacetophenone	On list of declared riot control agents compiled by the OPCW (S/1177/2014)
16-2-0018		on hist of decided flot control agents complied by the of ever (8/11/7/2011)
19-4-0009		Piot control agent (code CS)
08-2-0133	2-Chlorobenzylidene malononitrile	Riot control agent (code CS)
24-2-0076	•	On list of declared riot control agents compiled by the OPCW (S/1177/2014)
24-4-0056r	Capsaicin	Riot control agent (component of pepper spray).
25-2-0017		On list of declared riot control agents compiled by the OPCW (S/1177/2014)
19-4-0010	Dibenz[b,f][1,4]oxazepine	Riot control agent (code CR)
24-2-0077		On list of declared riot control agents compiled by the OPCW (S/1177/2014)
24-4-0057r	Pelargonic acid vanillylamide	Riot control agent (component of pepper spray).
25-2-0018		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

OPCW Code(s)	Chemical Name	Justification
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

OPCW Code(s)	Chemical Name	Justification
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