

THE SCHEDULE OF THE STRATEGIC GOODS (CONTROL) ORDER 2009

PART I

MILITARY GOODS THE EXPORT, TRANSHIPMENT OR BRINGING IN
TRANSIT OF WHICH, AND TECHNOLOGY THE EXPORT OR
TRANSMISSION OF WHICH, REQUIRE A PERMIT

Division 2 – List of Military Goods

<i>Product Code</i>	<i>Item Description</i>
ML1	<p>Smooth-bore weapons with a calibre of less than 20 mm, other arms and automatic weapons with a calibre of 12.7 mm (calibre 0.50 inches) or less and accessories, as follows, and specially designed components therefor:</p> <p>a. Rifles, carbines, revolvers, pistols, machine pistols and machine guns;</p> <p><u>Note</u> <i>Category Code ML1.a. does not apply to the following:</i></p> <p><i>a. Muskets, rifles and carbines manufactured earlier than 1938;</i></p> <p><i>b. Reproductions of muskets, rifles and carbines the originals of which were manufactured earlier than 1890;</i></p> <p><i>c. Revolvers, pistols and machine guns manufactured earlier than 1890, and their reproductions.</i></p> <p>b. Smooth-bore weapons as follows:</p> <p>1. Smooth-bore weapons specially designed for military use;</p> <p>2. Other smooth-bore weapons as follows:</p> <p>a. Fully automatic type weapons;</p> <p>b. Semi-automatic or pump-action type weapons;</p> <p>c. Weapons using caseless ammunition;</p> <p>d. Silencers, special gun-mountings, clips, weapons sights and flash suppressors for arms specified in Category Code ML1.a., ML1.b. or ML1.c.</p> <p><u>Note 1</u> <i>Category Code ML1 does not apply to smooth-bore weapons used for hunting or sporting purposes unless they are specially designed for military use or of the fully automatic firing type.</i></p> <p><u>Note 2</u></p>

<i>Product Code</i>	<i>Item Description</i>
	<p data-bbox="360 304 1385 409"><i>Category Code ML1 does not apply to firearms specially designed for dummy ammunition and which are incapable of firing any ammunition specified in Category Code ML3.</i></p> <p data-bbox="360 450 448 479"><u><i>Note 3</i></u></p> <p data-bbox="360 501 1385 568"><i>Category Code ML1 does not apply to weapons using non-centre fire cased ammunition and which are not of the fully automatic firing type.</i></p> <p data-bbox="360 609 448 638"><u><i>Note 4</i></u></p> <p data-bbox="360 660 1385 766"><i>Category Code ML1.d. does not apply to optical weapon sights without electronic image processing, with a magnification of 4 times or less, provided they are not specially designed or modified for military use.</i></p>
ML2	<p data-bbox="360 801 1385 907">Smooth-bore weapons with a calibre of 20 mm or more, other weapons or armament with a calibre greater than 12.7 mm (calibre 0.50 inches), projectors and accessories, as follows, and specially designed components therefor:</p> <p data-bbox="360 947 1385 1052">a. Guns, howitzers, cannon, mortars, anti-tank weapons, projectile launchers, military flame throwers, rifles, recoilless rifles, smooth-bore weapons and signature reduction devices therefor;</p> <p data-bbox="400 1072 488 1102"><u><i>Note 1</i></u></p> <p data-bbox="400 1124 1385 1229"><i>Category Code ML2.a. includes injectors, metering devices, storage tanks and other specially designed components for use with liquid propelling charges for any of the equipment specified in Category Code ML2.a.</i></p> <p data-bbox="400 1249 488 1279"><u><i>Note 2</i></u></p> <p data-bbox="400 1301 1198 1330"><i>Category Code ML2.a. does not apply to weapons as follows:</i></p> <p data-bbox="400 1352 1230 1382"><i>a. Muskets, rifles and carbines manufactured earlier than 1938;</i></p> <p data-bbox="400 1404 1385 1471"><i>b. Reproductions of muskets, rifles and carbines the originals of which were manufactured earlier than 1890.</i></p> <p data-bbox="400 1491 488 1520"><u><i>Note 3</i></u></p> <p data-bbox="400 1543 1385 1648"><i>Category Code ML2.a. does not apply to hand-held projectile launchers specially designed to launch tethered projectiles having no high explosive charge or communications link, to a range of less than or equal to 500 m.</i></p> <p data-bbox="360 1688 1190 1718">b. Military smoke, gas and pyrotechnic projectors or generators;</p> <p data-bbox="400 1740 464 1769"><u><i>Note</i></u></p> <p data-bbox="400 1792 1114 1821"><i>Category Code ML2.b. does not apply to signal pistols.</i></p> <p data-bbox="360 1861 608 1890">c. Weapons sights.</p>
ML3	<p data-bbox="360 1939 1385 2007">Ammunition and fuze setting devices, as follows, and specially designed components therefor:</p>

<i>Product Code</i>	<i>Item Description</i>
	<p>a. Ammunition for the weapons specified in Category Code ML1, ML2 or ML12;</p> <p>b. Fuze setting devices specially designed for ammunition specified in Category Code ML3.a.</p> <p><u>Note 1</u> <i>Specially designed components specified in Category Code ML3 include:</i></p> <p><i>a. Metal or plastic fabrications such as primer anvils, bullet cups, cartridge links, rotating bands and munitions metal parts;</i></p> <p><i>b. Safing and arming devices, fuses, sensors and initiation devices;</i></p> <p><i>c. Power supplies with high one-time operational output;</i></p> <p><i>d. Combustible cases for charges;</i></p> <p><i>e. Submunitions including bomblets, minelets and terminally guided projectiles.</i></p> <p><u>Note 2</u> <i>Category Code ML3.a. does not apply to ammunition crimped without a projectile (blank star) and dummy ammunition with a pierced powder chamber.</i></p> <p><u>Note 3</u> <i>Category Code ML3.a. does not apply to cartridges specially designed for any of the following purposes:</i></p> <p><i>a. Signalling;</i></p> <p><i>b. Bird scaring; <u>or</u></i></p> <p><i>c. Lighting of gas flares at oil wells.</i></p>
ML4	<p>Bombs, torpedoes, rockets, missiles, other explosive devices and charges and related equipment and accessories, as follows, and specially designed components therefor:</p> <p><u>N.B. 1</u> <i>For guidance and navigation equipment, see Category Code ML11.</i></p> <p><u>N.B. 2</u> <i>For Aircraft Missile Protection Systems (AMPS), see Category Code ML4.c.</i></p> <p>a. Bombs, torpedoes, grenades, smoke canisters, rockets, mines, missiles, depth charges, demolition-charges, demolition-devices, demolition-kits, “pyrotechnic” devices, cartridges and simulators (i.e., equipment simulating the characteristics of any of these items), specially designed for military use;</p>

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	<p><u>Note</u></p> <p><i>Category Code ML4.a. includes:</i></p> <p><i>a. Smoke grenades, fire bombs, incendiary bombs and explosive devices;</i></p> <p><i>b. Missile rocket nozzles and re-entry vehicle nosetips.</i></p>
	<p>b. Equipment having all of the following:</p> <ol style="list-style-type: none"> 1. Specially designed for military use; <u>and</u> 2. Specially designed for the handling, controlling, activating, powering with one-time operational output, launching, laying, sweeping, discharging, decoying, jamming, detonating, disrupting, disposing or detecting of any of the following: <ol style="list-style-type: none"> a. Items specified in Category Code ML4.a.; <u>or</u> b. Improvised Explosive Devices (IEDs); <p><u>Note 1</u></p> <p><i>Category Code ML4.b. includes:</i></p> <p><i>a. Mobile gas liquefying equipment capable of producing 1,000 kg or more per day of gas in liquid form;</i></p> <p><i>b. Buoyant electric conducting cable suitable for sweeping magnetic mines.</i></p> <p><u>Note 2</u></p> <p><i>Category Code ML4.b. does not apply to hand-held devices limited by design solely to the detection of metal objects and incapable of distinguishing between mines and other metal objects.</i></p>
	<p>c. Aircraft Missile Protection Systems (AMPS).</p> <p><u>Note</u></p> <p><i>Category Code ML4.c. does not apply to AMPS having all of the following:</i></p> <ol style="list-style-type: none"> a. Any of the following missile warning sensors: <ol style="list-style-type: none"> 1. Passive sensors having peak response between 100-400 nm; <u>or</u> 2. Active pulsed Doppler missile warning sensors; b. Countermeasures dispensing systems; c. Flares, which exhibit both a visible signature and an infrared signature, for decoying surface-to-air missiles; <u>and</u> d. Installed on “civil aircraft” and having all of the following: <ol style="list-style-type: none"> 1. The AMPS is only operable in a specific “civil aircraft” in which the specific AMPS is installed and for which any of the following has been issued: <ol style="list-style-type: none"> a. A civil Type Certificate; <u>or</u>

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	<p><i>b. An equivalent document recognised by the International Civil Aviation Organisation (ICAO);</i></p> <p><i>2. The AMPS employs protection to prevent unauthorised access to “software”; <u>and</u></i></p> <p><i>3. The AMPS incorporates an active mechanism that forces the system not to function when it is removed from the “civil aircraft” in which it was installed.</i></p>
ML5	<p>Fire control, and related alerting and warning equipment, and related systems, test and alignment and countermeasure equipment, as follows, specially designed for military use, and specially designed components and accessories therefor:</p> <p>a. Weapon sights, bombing computers, gun laying equipment and weapon control systems;</p> <p>b. Target acquisition, designation, range-finding, surveillance or tracking systems; detection, data fusion, recognition or identification equipment; and sensor integration equipment;</p> <p>c. Countermeasure equipment for items specified in Category Code ML5.a. or ML5.b.;</p> <p>d. Field test or alignment equipment, specially designed for items specified in Category Code ML5.a. or ML5.b.</p>
ML6	<p>Ground vehicles and components, as follows:</p> <p><u>N.B.</u> <i>For guidance and navigation equipment, see Category Code ML11.</i></p> <p>a. Ground vehicles and components therefor, specially designed or modified for military use;</p> <p><u>Technical Note</u> <i>For the purposes of Category Code ML6.a. the term ground vehicles includes trailers.</i></p> <p>b. All wheel-drive vehicles capable of off-road use which have been manufactured or fitted with materials to provide ballistic protection to level III (NIJ 0108.01, September 1985, or comparable national standard) or better.</p> <p><u>N.B.</u> <i>See also Category Code ML13.a.</i></p> <p><u>Note 1</u></p>

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	<p><i>Category Code ML6.a. includes:</i></p> <ul style="list-style-type: none"> <i>a. Tanks and other military armed vehicles and military vehicles fitted with mountings for arms or equipment for mine laying or the launching of munitions specified in Category Code ML4;</i> <i>b. Armoured vehicles;</i> <i>c. Amphibious and deep water fording vehicles;</i> <i>d. Recovery vehicles and vehicles for towing or transporting ammunition or weapon systems and associated load handling equipment.</i> <p><u>Note 2</u></p> <p><i>Under Category Code ML6.a., modification of a ground vehicle for military use entails a structural, electrical or mechanical change involving one or more components that are specially designed for military use. Such components include:</i></p> <ul style="list-style-type: none"> <i>a. Pneumatic tyre casings of a kind specially designed to be bullet-proof or to run when deflated;</i> <i>b. Tyre inflation pressure control systems, operated from inside a moving vehicle;</i> <i>c. Armoured protection of vital parts (e.g., fuel tanks or vehicle cabs);</i> <i>d. Special reinforcements or mountings for weapons;</i> <i>e. Black-out lighting.</i> <p><u>Note 3</u></p> <p><i>Category Code ML6 does not apply to civil automobiles, or trucks designed or modified for transporting money or valuables, having armoured or ballistic protection.</i></p>
ML7	<p>Chemical or biological toxic agents, “riot control agents”, radioactive materials, related equipment, components and materials, as follows:</p> <ul style="list-style-type: none"> a. Biological agents and radioactive materials “adapted for use in war” to produce casualties in humans or animals, degrade equipment or damage crops or the environment; b. Chemical warfare (CW) agents including: <ul style="list-style-type: none"> 1. CW nerve agents: <ul style="list-style-type: none"> a. O-Alkyl (equal to or less than C₁₀, including cycloalkyl) alkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-phosphonofluoridates, such as: <p>Sarin (GB):O-Isopropyl methylphosphonofluoridate (107-44-8);</p> <p><u>and</u></p>

<i>Product Code</i>	<i>Item Description</i>
	<p>Soman (GD):O-Pinacolyl methylphosphonofluoridate (96-64-0);</p> <p>b. O-Alkyl (equal to or less than C₁₀, including cycloalkyl) N,N-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphoramidocyanidates, such as:</p> <p>Tabun (GA):O-Ethyl N,N-dimethylphosphoramidocyanidate (77-81-6);</p> <p>c. O-Alkyl (H or equal to or less than C₁₀, including cycloalkyl) S-2-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-aminoethyl alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphonothiolates and corresponding alkylated and protonated salts, such as:</p> <p>VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate (50782-69-9);</p> <p>2. CW vesicant agents:</p> <p>a. Sulphur mustards, such as:</p> <ol style="list-style-type: none"> 1. 2-Chloroethylchloromethylsulphide (2625-76-5); 2. Bis(2-chloroethyl) sulphide (505-60-2); 3. Bis(2-chloroethylthio) methane (63869-13-6); 4. 1,2-bis (2-chloroethylthio) ethane (3563-36-8); 5. 1,3-bis (2-chloroethylthio) -n-propane (63905-10-2); 6. 1,4-bis (2-chloroethylthio) -n-butane (142868-93-7); 7. 1,5-bis (2-chloroethylthio) -n-pentane (142868-94-8); 8. Bis (2-chloroethylthiomethyl) ether (63918-90-1); 9. Bis (2-chloroethylthioethyl) ether (63918-89-8); <p>b. Lewisites, such as:</p> <ol style="list-style-type: none"> 1. 2-chlorovinylchloroarsine (541-25-3); 2. Tris (2-chlorovinyl) arsine (40334-70-1); 3. Bis (2-chlorovinyl) chloroarsine (40334-69-8); <p>c. Nitrogen mustards, such as:</p> <ol style="list-style-type: none"> 1. HN1: bis (2-chloroethyl) ethylamine (538-07-8); 2. HN2: bis (2-chloroethyl) methylamine (51-75-2); 3. HN3: tris (2-chloroethyl) amine (555-77-1); <p>3. CW incapacitating agents, such as:</p> <p>a. 3-Quinuclidinyl benzilate (BZ) (6581-06-2);</p> <p>4. CW defoliants, such as:</p> <p>a. Butyl 2-chloro-4-fluorophenoxyacetate (LNF);</p>

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	b. 2,4,5-trichlorophenoxyacetic acid mixed with 2,4-dichlorophenoxyacetic acid (Agent Orange);
	c. CW binary precursors and key precursors, as follows:
	1. Alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) Phosphonyl Difluorides, such as: DF: Methyl Phosphonyldifluoride (676-99-3);
	2. O-Alkyl (H or equal to or less than C ₁₀ , including cycloalkyl) O-2-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethyl alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphonites and corresponding alkylated and protonated salts, such as: QL: O-Ethyl-2-di-isopropylaminoethyl methylphosphonite (57856-11-8);
	3. Chlorosarin: O-Isopropyl methylphosphonochloridate (1445-76-7);
	4. Chlorosoman: O-Pinacolyl methylphosphonochloridate (7040-57-5);
	d. "Riot control agents", active constituent chemicals and combinations thereof, including: 1. α -Bromobenzeneacetonitrile, (Bromobenzyl cyanide) (CA) (5798-79-8); 2. [(2-chlorophenyl) methylene] propanedinitrile, (o-Chlorobenzylidenemalononitrile) (CS) (2698-41-1); 3. 2-Chloro-1-phenylethanone, Phenylacetyl chloride (ω -chloroacetophenone) (CN) (532-27-4); 4. Dibenz-(b,f)-1,4-oxazepine, (CR) (257-07-8); 5. 10-Chloro-5,10-dihydrophenarsazine, (Phenarsazine chloride), (Adamsite), (DM) (578-94-9); 6. N-Nonanoylmorpholine, (MPA) (5299-64-9); <i>Note 1</i> <i>Category Code ML7.d. does not apply to "riot control agents" individually packaged for personal self defence purposes.</i> <i>Note 2</i> <i>Category Code ML7.d. does not apply to active constituent chemicals, and combinations thereof, identified and packaged for food production or medical purposes.</i>
	e. Equipment, specially designed or modified for military use, designed or modified for the dissemination of any of the following, and specially designed components therefor:

<i>Product Code</i>	<i>Item Description</i>
	1. Materials or agents under Category Code ML7.a., ML7.b. or ML7.d.; <u>or</u> 2. CW agents made up of precursors specified in Category Code ML7.c.;
	f. Protective and decontamination equipment, specially designed or modified for military use, components and chemical mixtures, as follows:
	1. Equipment designed or modified for defence against materials specified in Category Code ML7.a., ML7.b. or ML7.d., and specially designed components therefor;
	2. Equipment designed or modified for decontamination of objects contaminated with materials specified in Category Code ML7.a. or ML7.b., and specially designed components therefor;
	3. Chemical mixtures specially developed or formulated for the decontamination of objects contaminated with materials specified in Category Code ML7.a. or ML7.b.;
	<p><u>Note</u> <i>Category Code ML7.f.1. includes:</i></p> <p style="padding-left: 40px;"><i>a. Air conditioning units specially designed or modified for nuclear, biological or chemical filtration;</i></p> <p style="padding-left: 40px;"><i>b. Protective clothing.</i></p> <p><u>N.B.</u> <i>For civil gas masks, protective and decontamination equipment, see also Category Code 1A004 in Division 2 of Part II of this Schedule.</i></p>
	g. Equipment, specially designed or modified for military use, designed or modified for the detection or identification of materials specified in Category Code ML7.a., ML7.b. or ML7.d., and specially designed components therefor;
	<p><u>Note</u> <i>Category Code ML7.g. does not apply to personal radiation monitoring dosimeters.</i></p> <p><u>N.B.</u> <i>See also Category Code 1A004 in Division 2 of Part II of this Schedule.</i></p>
	h. “Biopolymers” specially designed or processed for the detection or identification of CW agents specified in Category Code ML7.b., and the cultures of specific cells used to produce them;
	i. “Biocatalysts” for the decontamination or degradation of CW agents, and biological systems therefor, as follows:

<i>Product Code</i>	<i>Item Description</i>
	<p>1. “Biocatalysts” specially designed for the decontamination or degradation of CW agents specified in Category Code ML7.b. resulting from directed laboratory selection or genetic manipulation of biological systems;</p> <p>2. Biological systems as follows: “expression vectors”, viruses or cultures of cells, containing the genetic information specific to the production of “biocatalysts” specified in Category Code ML7.i.1.</p> <p><u>Note 1</u> <i>Category Codes ML7.b. and ML7.d. do not apply to the following:</i></p> <p><i>a. Cyanogen chloride (506-77-4);</i> <i>b. Hydrocyanic acid (74-90-8);</i> <i>c. Chlorine (7782-50-5);</i> <i>d. Carbonyl chloride (phosgene) (75-44-5);</i> <i>e. Diphosgene (trichloromethyl-chloroformate) (503-38-8);</i> <i>f. Not used;</i> <i>g. Xylyl bromide, ortho: (89-92-9), meta: (620-13-3), para: (104-81-4);</i> <i>h. Benzyl bromide (100-39-0);</i> <i>i. Benzyl iodide (620-05-3);</i> <i>j. Bromo acetone (598-31-2);</i> <i>k. Cyanogen bromide (506-68-3);</i> <i>l. Bromo methylethylketone (816-40-0);</i> <i>m. Chloro acetone (78-95-5);</i> <i>n. Ethyl iodoacetate (623-48-3);</i> <i>o. Iodo acetone (3019-04-3);</i> <i>p. Chloropicrin (76-06-2).</i></p> <p><u>Note 2</u> <i>The cultures of cells and biological systems specified in Category Codes ML7.h. and ML7.i.2. are exclusive and these sub-items do not apply to cells or biological systems for civil purposes, such as agricultural, pharmaceutical, medical, veterinary, environmental, waste management, or in the food industry.</i></p>
ML8	<p>“Energetic materials” and related substances, as follows:</p> <p><u>N.B.</u></p> <p><i>See also Category Code 1C011 in Division 2 of Part II of this Schedule.</i></p>

<i>Product Code</i>	<i>Item Description</i>
	<p><u>Technical Notes</u></p> <p>1. For the purposes of Category Code ML8, mixture refers to a composition of two or more substances with at least one substance being listed in the sub-items under this Category Code.</p> <p>2. Any substance listed in the sub-items under Category Code ML8 is treated as coming within the description of that substance even when utilised in an application other than that indicated. (e.g., TAGN is predominantly used as an explosive but can also be used either as a fuel or an oxidiser.)</p>
	<p>a. “Explosives” as follows, and mixtures thereof:</p> <p>1. ADNBF (aminodinitrobenzofuroxan or 7-amino-4,6-dinitrobenzofurazane-1-oxide) (97096-78-1);</p>
	<p>2. BNCP (cis-bis (5-nitrotetrazolato) tetra amine-cobalt (III) perchlorate) (117412-28-9);</p>
	<p>3. CL-14 (diamino dinitrobenzofuroxan or 5,7-diamino-4,6-dinitrobenzofurazane-1-oxide) (117907-74-1);</p>
	<p>4. CL-20 (HNIW or Hexanitrohexaazaisowurtzitane) (135285-90-4); chlathrates of CL-20 (see also Category Codes ML8.g.3. and g.4. for its “precursors”);</p>
	<p>5. CP (2-(5-cyanotetrazolato) penta amine-cobalt (III) perchlorate) (70247-32-4);</p>
	<p>6. DADE (1,1-diamino-2,2-dinitroethylene, FOX7);</p>
	<p>7. DATB (diaminotrinitrobenzene) (1630-08-6);</p>
	<p>8. DDFP (1,4-dinitrodifurazanopiperazine);</p>
	<p>9. DDPO (2,6-diamino-3,5-dinitropyrazine-1-oxide, PZO) (194486-77-6);</p>
	<p>10. DIPAM (3,3'-diamino-2,2',4,4',6,6'-hexanitrobiphenyl or dipicramide) (17215-44-0);</p>
	<p>11. DNGU (DINGU or dinitroglycoluril) (55510-04-8);</p>
	<p>12. Furazans as follows:</p>
	<p>a. DAAOF (diaminoazoxyfurazan);</p>
	<p>b. DAAzF (diaminoazofurazan) (78644-90-3);</p>

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	13. HMX and derivatives (see also Category Code ML8.g.5. for its “precursors”), as follows:
	a. HMX (Cyclotetramethylenetetranitramine, octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine, 1,3,5,7-tetranitro-1,3,5,7-tetrazacyclooctane, octogen or octogene) (2691-41-0);
	b. Difluoroaminated analogs of HMX;
	c. K-55 (2,4,6,8-tetranitro-2,4,6,8-tetraazabicyclo [3,3,0]-octanone-3, tetranitrosemiglycouril or keto-bicyclic HMX) (130256-72-3);
	14. HNAD (hexanitroadamantane) (143850-71-9);
	15. HNS (hexanitrostilbene) (20062-22-0);
	16. Imidazoles as follows:
	a. BNNII (Octahydro-2,5-bis(nitroimino)imidazo [4,5-d]imidazole);
	b. DNI (2,4-dinitroimidazole) (5213-49-0);
	c. FDIA (1-fluoro-2,4-dinitroimidazole);
	d. NTDNIA (N-(2-nitrotriazolo)-2,4-dinitroimidazole);
	e. PTIA (1-picryl-2,4,5-trinitroimidazole);
	17. NTNMH (1-(2-nitrotriazolo)-2-dinitromethylene hydrazine);
	18. NTO (ONTA or 3-nitro-1,2,4-triazol-5-one) (932-64-9);
	19. Polynitrocubanes with more than four nitro groups;
	20. PYX (2,6-Bis(picrylamino)-3,5-dinitropyridine) (38082-89-2);
	21. RDX and derivatives, as follows:
	a. RDX (cyclotrimethylenetrinitramine, cyclonite, T4, hexahydro-1,3,5-trinitro-1,3,5-triazine, 1,3,5-trinitro-1,3,5-triazacyclohexane, hexogen or hexogene) (121-82-4);
	b. Keto-RDX (K-6 or 2,4,6-trinitro-2,4,6-triazacyclohexanone) (115029-35-1);
	22. TAGN (triaminoguanidinenitrate) (4000-16-2);

<i>Product Code</i>	<i>Item Description</i>
	23. TATB (triaminotrinitrobenzene) (3058-38-6) (see also Category Code ML8.g.7 for its “precursors”);
	24. TEDDZ (3,3,7,7-tetrakis(difluoroamine) octahydro-1,5-dinitro-1,5-diazocine);
	25. Tetrazoles as follows:
	a. NTAT (nitrotriazol aminotetrazole);
	b. NTNT (1-N-(2-nitrotriazolo)-4-nitrotetrazole);
	26. Tetryl (trinitrophenylmethylnitramine) (479-45-8);
	27. TNAD (1,4,5,8-tetranitro-1,4,5,8-tetraazadecalin) (135877-16-6) (see also Category Code ML8.g.6. for its “precursors”);
	28. TNAZ (1,3,3-trinitroazetidine) (97645-24-4) (see also Category Code ML8.g.2. for its “precursors”);
	29. TNGU (SORGUYL or tetranitroglycoluril) (55510-03-7);
	30. TNP (1,4,5,8-tetranitro-pyridazino[4,5-d]pyridazine) (229176-04-9);
	31. Triazines as follows:
	a. DNAM (2-oxy-4,6-dinitroamino-s-triazine) (19899-80-0);
	b. NNHT (2-nitroimino-5-nitro-hexahydro-1,3,5-triazine) (130400-13-4);
	32. Triazoles as follows:
	a. 5-azido-2-nitrotriazole;
	b. ADHTDN (4-amino-3,5-dihydrazino-1,2,4-triazole dinitramide) (1614-08-0);
	c. ADNT (1-amino-3,5-dinitro-1,2,4-triazole);
	d. BDNTA ([bis-dinitrotriazole]amine);
	e. DBT (3,3'-dinitro-5,5-bi-1,2,4-triazole) (30003-46-4);
	f. DNBT (dinitrobistriazole) (70890-46-9);
	g. NTDNA (2-nitrotriazole 5-dinitramide) (75393-84-9);

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	h. NTDNT (1-N-(2-nitrotriazolo) 3,5-dinitrotriazole);
	i. PDNT (1-picryl-3,5-dinitrotriazole);
	j. TACOT (tetranitrobenzotriazolobenzotriazole) (25243-36-1);
	33. Explosives not listed elsewhere in Category Code ML8.a. having a detonation velocity exceeding 8,700 m/s, at maximum density, or a detonation pressure exceeding 34 GPa (340 kbar);
	34. Organic explosives not listed elsewhere in Category Code ML8.a. yielding detonation pressures of 25 GPa (250 kbar) or more that will remain stable at temperatures of 523K (250°C) or higher, for periods of 5 minutes or longer;
	b. "Propellants" as follows:
	1. Any United Nations (UN) Class 1.1 solid "propellant" with a theoretical specific impulse (under standard conditions) of more than 250 seconds for non-metallised, or more than 270 seconds for aluminised compositions;
	2. Any UN Class 1.3 solid "propellant" with a theoretical specific impulse (under standard conditions) of more than 230 seconds for non-halogenised, 250 seconds for non-metallised compositions and 266 seconds for metallised compositions;
	3. "Propellants" having a force constant of more than 1,200 kJ/kg;
	4. "Propellants" that can sustain a steady-state linear burning rate of more than 38 mm/s under standard conditions (as measured in the form of an inhibited single strand) of 6.89 MPa (68.9 bar) pressure and 294K (21°C);
	5. Elastomer Modified Cast Double Base (EMCDB) "propellants" with extensibility at maximum stress of more than 5% at 233 K (-40°C);
	6. Any "propellant" containing substances specified in Category Code ML8.a;
	c. "Pyrotechnics", fuels and related substances, as follows, and mixtures thereof:
	1. Aircraft fuels specially formulated for military purposes;
	2. Alane (aluminium hydride) (7784-21-6);
	3. Carboranes; decaborane (17702-41-9); pentaboranes (19624-22-7 and

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	18433-84-6) and their derivatives;
	4. Hydrazine and derivatives, as follows (see also Category Codes ML8.d.8. and d.9. for oxidising hydrazine derivatives):
	a. Hydrazine (302-01-2) in concentrations of 70% or more;
	b. Monomethyl hydrazine (60-34-4);
	c. Symmetrical dimethyl hydrazine (540-73-8);
	d. Unsymmetrical dimethyl hydrazine (57-14-7);
	5. Metal fuels in particle form whether spherical, atomised, spheroidal, flaked or ground, manufactured from material consisting of 99% or more of any of the following: <ul style="list-style-type: none"> a. Metals as follows and mixtures thereof: <ul style="list-style-type: none"> 1. Beryllium (7440-41-7) in particle sizes of less than 60 µm; 2. Iron powder (7439-89-6) with particle size of 3 µm or less produced by reduction of iron oxide with hydrogen; b. Mixtures containing any of the following: <ul style="list-style-type: none"> 1. Zirconium (7440-67-7), magnesium (7439-95-4) or alloys of these in particle sizes of less than 60 µm; <u>or</u> 2. Boron (7440-42-8) or boron carbide (12069-32-8) fuels of 85% purity or higher and particle sizes of less than 60 µm;
	6. Military materials, containing thickeners for hydrocarbon fuels, specially formulated for use in flame throwers or incendiary munitions, such as metal stearates or palmates (e.g. octal (637-12-7)) and M1, M2, and M3 thickeners;
	7. Perchlorates, chlorates and chromates, composited with powdered metal or other high energy fuel components;
	8. Spherical aluminium powder (7429-90-5) with a particle size of 60 µm or less, manufactured from material with an aluminium content of 99% or more;
	9. Titanium subhydride (TiH _n) of stoichiometry equivalent to n= 0.65-1.68;
	<p><u>Note 1</u> <i>Aircraft fuels specified in Category Code ML8.c.1. are finished products, not their constituents.</i></p> <p><u>Note 2</u></p>

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	<p><i>Category Code ML8.c.4.a. does not apply to hydrazine ‘mixtures’ specially formulated for corrosion control.</i></p> <p><u>Note 3</u></p> <p><i>Category Code ML8.c.5. applies to explosives and fuels, whether or not the metals or alloys are encapsulated in aluminium, magnesium, zirconium, or beryllium.</i></p> <p><u>Note 4</u></p> <p><i>Category Code ML8.c.5.b.2. does not apply to boron and boron carbide enriched with boron-10 (20% or more of total boron-10 content).</i></p>
	<p>d. Oxidisers as follows, and mixtures thereof:</p>
	<p>1. ADN (ammonium dinitramide or SR 12) (140456-78-6);</p>
	<p>2. AP (ammonium perchlorate) (7790-98-9);</p>
	<p>3. Compounds composed of fluorine and any of the following:</p> <ul style="list-style-type: none"> a. Other halogens; b. Oxygen; <u>or</u> c. Nitrogen; <p><u>Note 1</u></p> <p><i>Category Code ML8.d.3 does not apply to chlorine trifluoride.</i></p> <p><u>Note 2</u></p> <p><i>Category Code ML8.d.3 does not apply to nitrogen trifluoride in its gaseous state.</i></p>
	<p>4. DNAD (1,3-dinitro-1,3-diazetidine) (78246-06-7);</p>
	<p>5. HAN (hydroxylammonium nitrate) (13465-08-2);</p>
	<p>6. HAP (hydroxylammonium perchlorate) (15588-62-2);</p>
	<p>7. HNF (hydrazinium nitroformate) (20773-28-8);</p>
	<p>8. Hydrazine nitrate (37836-27-4);</p>
	<p>9. Hydrazine perchlorate (27978-54-7);</p>
	<p>10. Liquid oxidisers comprised of or containing inhibited red fuming nitric acid (IRFNA) (8007-58-7);</p> <p><u>Note</u></p> <p><i>Category Code ML8.d.10. does not apply to non-inhibited fuming nitric</i></p>

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	<i>acid.</i>
	e. Binders, plasticisers, monomers and polymers, as follows:
	1. AMMO (azidomethylmethyloxetane and its polymers) (90683-29-7) (see also Category Code ML8.g.1. for its “precursors”);
	2. BAMO (bisazidomethyloxetane and its polymers) (17607-20-4) (see also Category Code ML8.g.1. for its “precursors”);
	3. BDNPA (bis (2,2-dinitropropyl)acetal) (5108-69-0);
	4. BDNPF (bis (2,2-dinitropropyl)formal) (5917-61-3);
	5. BTTN (butanetrioltrinitrate) (6659-60-5) (see also Category Code ML8.g.8. for its “precursors”);
	6. Energetic monomers, plasticisers and polymers, containing nitro, azido, nitrate, nitraza or difluoroamino groups specially formulated for military use;
	7. FAMA0 (3-difluoroaminomethyl-3-azidomethyl oxetane) and its polymers;
	8. FEFO (bis-(2-fluoro-2,2-dinitroethyl) formal) (17003-79-1);
	9. FPF-1 (poly-2,2,3,3,4,4-hexafluoropentane-1,5-diol formal) (376-90-9);
	10. FPF-3 (poly-2,4,4,5,5,6,6-heptafluoro-2-tri-fluoromethyl-3-oxaheptane-1,7-diol formal);
	11. GAP (glycidylazide polymer) (143178-24-9) and its derivatives;
	12. HTPB (hydroxyl terminated polybutadiene) with a hydroxyl functionality equal to or greater than 2.2 and less than or equal to 2.4, a hydroxyl value of less than 0.77 meq/g, and a viscosity at 30°C of less than 47 poise (69102-90-5);
	13. Low (less than 10,000) molecular weight, alcohol functionalised, poly(epichlorohydrin); poly(epichlorohydrindiol) and triol;
	14. NENAs (nitrateethylnitramine compounds) (17096-47-8, 85068-73-1, 82486-83-7, 82486-82-6 and 85954-06-9);
	15. PGN (poly-GLYN, polyglycidylnitrate or poly(nitratomethyl oxirane) (27814-48-8);
	16. Poly-NIMMO (poly nitratomethylmethyloxetane) or poly-NMMO

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	(poly[3-Nitratomethyl-3-methyloxetane]) (84051-81-0);
	17. Polynitroorthocarbonates;
	18. TVOPA (1,2,3-tris[1,2-bis(difluoroamino)ethoxy] propane or tris vinoxyl propane adduct) (53159-39-0);
	f. "Additives", as follows:
	1. Basic copper salicylate (62320-94-9);
	2. BHEGA (bis-(2-hydroxyethyl) glycolamide) (17409-41-5);
	3. BNO (butadienenitrileoxide) (9003-18-3);
	4. Ferrocene derivatives, as follows:
	a. Butacene (125856-62-4);
	b. Catocene (2,2-bis-ethylferrocenyl propane) (37206-42-1);
	c. Ferrocene carboxylic acids;
	d. n-butyl-ferrocene (31904-29-7);
	e. Other adducted polymer ferrocene derivatives;
	5. Lead beta-resorcylate (20936-32-7);
	6. Lead citrate (14450-60-3);
	7. Lead-copper chelates of beta-resorcylate or salicylates (68411-07-4);
	8. Lead maleate (19136-34-6);
	9. Lead salicylate (15748-73-9);
	10. Lead stannate (12036-31-6);
	11. MAPO (tris-1-(2-methyl)aziridinyl phosphine oxide) (57-39-6); BOBBA 8 (bis(2-methyl aziridinyl) 2-(2-hydroxypropanoxy) propylamino phosphine oxide); and other MAPO derivatives;
	12. Methyl BAPO (bis(2-methyl aziridinyl) methylamino phosphine oxide) (85068-72-0);
	13. N-methyl-p-nitroaniline (100-15-2);

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	14. 3-Nitroaza-1,5-pentane diisocyanate (7406-61-9);
	15. Organo-metallic coupling agents as follows:
	a. Neopentyl[diallyl]oxy, tri[diethyl]phosphato-titanate (103850-22-2); also known as titanium IV, 2,2[bis 2-propenolato-methyl, butanolato, tris (diethyl) phosphato] (110438-25-0); or LICA 12 (103850-22-2);
	b. Titanium IV, [(2-propenolato-1) methyl, n-propanolatomethyl] butanolato-1, tris[diethyl] pyrophosphate or KR3538;
	c. Titanium IV, [(2-propenolato-1)methyl, n-propanolatomethyl] butanolato-1, tris(diethyl)phosphate;
	16. Polycyanodifluoroaminoethyleneoxide;
	17. Polyfunctional aziridine amides with isophthalic, trimesic (BITA or butylene imine trimesamide), isocyanuric or trimethyladipic backbone structures and 2-methyl or 2-ethyl substitutions on the aziridine ring;
	18. Propyleneimine (2-methylaziridine) (75-55-8);
	19. Superfine iron oxide (Fe ₂ O ₃) with a specific surface area more than 250 m ² /g and an average particle size of 3.0 nm or less;
	20. TEPAN (tetraethylenepentaamineacrylonitrile) (68412-45-3); cyanoethylated polyamines and their salts;
	21. TEPANOL (tetraethylenepentaamineacrylonitrileglycidol) (68412-46-4); cyanoethylated polyamines adducted with glycidol and their salts;
	22. TPB (triphenyl bismuth) (603-33-8);
	g. "Precursors" as follows: <u>N.B.</u> <i>The references in Category Code ML8.g. are specified "energetic materials" manufactured from these substances.</i>
	1. BCMO (bischloromethyloxetane) (142173-26-0) (see also Category Code ML8.e.1. and e.2.);
	2. Dinitroazetidone-t-butyl salt (125735-38-8) (see also Category Code ML8.a.28.);
	3. HBIW (hexabenzylhexaazaisowurtzitane) (124782-15-6) (see also

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	Category Code ML8.a.4.);
	4. TAIW (tetraacetyldibenzylhexaazaisowurtzitane) (see also Category Code ML8.a.4.);
	5. TAT (1,3,5,7 tetraacetyl-1,3,5,7,-tetraaza cyclo-octane) (41378-98-7) (see also Category Code ML8.a.13.);
	6. 1,4,5,8-tetraazadecalin (5409-42-7) (see also Category Code ML8.a.27.);
	7. 1,3,5-trichlorobenzene (108-70-3) (see also Category Code ML8.a.23.);
	8. 1,2,4-trihydroxybutane (1,2,4-butanetriol) (3068-00-6) (see also Category Code ML8.e.5.).
	<p><u>Note 1</u> <i>For charges and devices see Category Code ML4.</i></p> <p><u>Note 2</u> <i>Category Code ML8 does not apply to the following substances unless they are compounded or mixed with the “energetic material” specified in Category Code ML8.a. or powdered metals specified in Category Code ML8.c.:</i></p> <ul style="list-style-type: none"> <i>a. Ammonium picrate;</i> <i>b. Black powder;</i> <i>c. Hexanitrodiphenylamine;</i> <i>d. Difluoroamine;</i> <i>e. Nitrostarch;</i> <i>f. Potassium nitrate;</i> <i>g. Tetranitronaphthalene;</i> <i>h. Trinitroanisol;</i> <i>i. Trinitronaphthalene;</i> <i>j. Trinitroxylene;</i> <i>k. N-pyrrolidinone; 1-methyl-2-pyrrolidinone;</i> <i>l. Dioctylmaleate;</i> <i>m. Ethylhexylacrylate;</i> <i>n. Triethylaluminium (TEA), trimethylaluminium (TMA), and other pyrophoric metal alkyls and aryls of lithium, sodium, magnesium, zinc or boron;</i> <i>o. Nitrocellulose;</i>

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	<p>p. Nitroglycerin (or glyceroltrinitrate, trinitrolycerine) (NG);</p> <p>q. 2,4,6-trinitrotoluene (TNT);</p> <p>r. Ethylenediaminedinitrate (EDDN);</p> <p>s. Pentaerythritoltetranitrate (PETN);</p> <p>t. Lead azide, normal and basic lead styphnate, and primary explosives or priming compositions containing azides or azide complexes;</p> <p>u. Triethyleneglycoldinitrate (TEGDN);</p> <p>v. 2,4,6-trinitroresorcinol (styphnic acid);</p> <p>w. Diethyldiphenyl urea; dimethyldiphenyl urea; methylethyldiphenyl urea [Centralites];</p> <p>x. N,N-diphenylurea (unsymmetrical diphenylurea);</p> <p>y. Methyl-N,N-diphenylurea (methyl unsymmetrical diphenylurea);</p> <p>z. Ethyl-N,N-diphenylurea (ethyl unsymmetrical diphenylurea);</p> <p>aa. 2-Nitrodiphenylamine (2-NDPA);</p> <p>bb. 4-Nitrodiphenylamine (4-NDPA);</p> <p>cc. 2,2-dinitropropanol;</p> <p>dd. Nitroguanidine (see <i>Category Code 1C011.d. in Division 2 of Part II of this Schedule</i>).</p>
ML9	<p>Vessels of war (surface or underwater), special naval equipment, accessories, components and other surface vessels, as follows:</p> <p><u>N.B.</u></p> <p><i>For guidance and navigation equipment, see Category Code ML11.</i></p> <p>a. Vessels and components, as follows:</p> <p>1. Vessels (surface or underwater) specially designed or modified for military use, regardless of current state of repair or operating condition, and whether or not they contain weapon delivery systems or armour, and hulls or parts of hulls for such vessels, and components therefore specially designed for military use;</p> <p>2. Surface vessels, other than those specified in Category Code ML9.a.1., having any of the following, fixed or integrated into the vessel:</p> <p>a. Automated weapons having a calibre of 12.7 mm or greater specified in Category Code ML1, or weapons specified in Category Code ML2, ML4, ML12 or ML19, or ‘mountings’ or hard points for such weapons;</p> <p><i>Technical Note</i></p>

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	<p><i>‘Mountings’ refers to weapon mounts or structural strengthening for the purpose of installing weapons.</i></p> <p>b. Fire control systems specified in Category Code ML5.;</p> <p>c. Having all of the following:</p> <ol style="list-style-type: none"> 1. ‘Chemical, Biological, Radiological and Nuclear (CBRN) protection’; <u>and</u> 2. ‘Pre-wet or wash down system’ designed for decontamination purposes; <u>or</u> <p><u>Technical Notes</u></p> <ol style="list-style-type: none"> 1. ‘CBRN protection’ is a self contained interior space containing features such as over-pressurisation, isolation of ventilation systems, limited ventilation openings with CBRN filters and limited personnel access points incorporating air-locks. 2. ‘Pre-wet or wash down system’ is a seawater spray system capable of simultaneously wetting the exterior superstructure and decks of a vessel. <p>d. Active weapon countermeasure systems specified in Category Code ML4.b., ML5.c. or ML11.a. and having any of the following:</p> <ol style="list-style-type: none"> 1. ‘CBRN protection’; 2. Hull and superstructure, specially designed to reduce the radar cross section; 3. Thermal signature reduction devices, (e.g., an exhaust gas cooling system), excluding those specially designed to increase overall power plant efficiency or to reduce the environmental impact; <u>or</u> 4. A degaussing system designed to reduce the magnetic signature of the whole vessel;
	<p>b. Engines and propulsion systems, as follows, specially designed for military use and components therefor specially designed for military use:</p>
	<ol style="list-style-type: none"> 1. Diesel engines specially designed for submarines and having all of the following: <ol style="list-style-type: none"> a. Power output of 1.12 MW (1,500 hp) or more; <u>and</u> b. Rotary speed of 700 rpm or more;
	<ol style="list-style-type: none"> 2. Electric motors specially designed for submarines and having all of the following: <ol style="list-style-type: none"> a. Power output of more than 0.75 MW (1,000 hp); b. Quick reversing;

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	<p>c. Liquid cooled; <u>and</u> d. Totally enclosed;</p>
	<p>3. Non-magnetic diesel engines having all of the following: a. Power output of 37.3 kW (50 hp) or more; <u>and</u> b. Non-magnetic content in excess of 75% of total mass;</p>
	<p>4. ‘Air Independent Propulsion’ (AIP) systems specially designed for submarines; <u>Technical Note</u> ‘Air Independent Propulsion’ (AIP) allows a submerged submarine to operate its propulsion system, without access to atmospheric oxygen, for a longer time than the batteries would have otherwise allowed. For the purpose of Category Code ML9.b.4., AIP does not include nuclear power.</p>
	<p>c. Underwater detection devices, specially designed for military use, controls therefor and components therefor specially designed for military use;</p>
	<p>d. Anti-submarine nets and anti-torpedo nets, specially designed for military use;</p>
	<p>e. Not used;</p>
	<p>f. Hull penetrators and connectors, specially designed for military use, that enable interaction with equipment external to a vessel, and components therefor specially designed for military use; <u>Note</u> Category Code ML9.f. includes connectors for vessels which are of the single-conductor, multi-conductor, coaxial or waveguide type, and hull penetrators for vessels, both of which are capable of remaining impervious to leakage from without and of retaining required characteristics at marine depths exceeding 100 m; and fibre-optic connectors and optical hull penetrators specially designed for “laser” beam transmission, regardless of depth. Category Code ML9.f. does not apply to ordinary propulsive shaft and hydrodynamic control-rod hull penetrators.</p>
	<p>g. Silent bearings, having any of the following, components therefor and equipment containing those bearings, specially designed for military use: 1. Gas or magnetic suspension; 2. Active signature controls; <u>or</u> 3. Vibration suppression controls.</p>

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ML10	<p>“Aircraft”, “lighter-than-air vehicles”, unmanned airborne vehicles, aeroengines and “aircraft” equipment, related equipment and components, specially designed or modified for military use, as follows:</p> <p><u>N.B.</u></p> <p><i>For guidance and navigation equipment, see Category Code ML11.</i></p> <p>a. Combat “aircraft” and specially designed components therefor;</p> <p>b. Other “aircraft” and “lighter-than-air vehicles”, specially designed or modified for military use, including military reconnaissance, assault, military training, transporting and airdropping troops or military equipment, logistics support, and specially designed components therefor;</p> <p>c. Unmanned airborne vehicles and related equipment, specially designed or modified for military use, as follows, and specially designed components therefor:</p> <ol style="list-style-type: none"> 1. Unmanned airborne vehicles including remotely piloted air vehicles (RPVs), autonomous programmable vehicles and “lighter-than-air vehicles”; 2. Associated launchers and ground support equipment; 3. Related equipment for command and control; <p>d. Aero-engines specially designed or modified for military use, and specially designed components therefor;</p> <p>e. Airborne equipment, including airborne refuelling equipment, specially designed for use with the “aircraft” specified in Category Code ML10.a. or ML10.b. or the aero-engines specified in Category Code ML10.d., and specially designed components therefor;</p> <p>f. Pressure refuellers, pressure refuelling equipment, equipment specially designed to facilitate operations in confined areas and ground equipment, developed specially for “aircraft” specified in Category Code ML10.a. or ML10.b., or for aero-engines specified in Category Code ML10.d.;</p> <p>g. Military crash helmets and protective masks, and specially designed components therefor, pressurised breathing equipment and partial pressure suits for use in “aircraft”, anti-g suits, liquid oxygen converters used for “aircraft” or missiles, and catapults and cartridge actuated devices, for emergency escape of personnel from “aircraft”;</p> <p>h. Parachutes and related equipment, used for combat personnel, cargo dropping or “aircraft” deceleration, as follows, and specially designed</p>

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	<p>components therefor:</p> <ol style="list-style-type: none"> 1. Parachutes as follows: <ol style="list-style-type: none"> a. For pin point dropping of rangers; b. For dropping of paratroopers; 2. Cargo parachutes; 3. Paragliders, drag parachutes, drogue parachutes for stabilisation and attitude control of dropping bodies (e.g., recovery capsules, ejection seats, bombs); 4. Drogue parachutes for use with ejection seat systems for deployment and inflation sequence regulation of emergency parachutes; 5. Recovery parachutes for guided missiles, drones or space vehicles; 6. Approach parachutes and landing deceleration parachutes; 7. Other military parachutes; 8. Equipment specially designed for high altitude parachutists (e.g., suits, special helmets, breathing systems, navigation equipment); i. Automatic piloting systems for parachuted loads; equipment specially designed or modified for military use for controlled opening jumps at any height, including oxygen equipment.
	<p><u>Note 1</u></p> <p><i>Category Code ML10.b. does not apply to “aircraft” or variants of those “aircraft” specially designed for military use and which are all of the following:</i></p> <ol style="list-style-type: none"> <i>a. Not configured for military use and are not fitted with equipment or attachments specially designed or modified for military use; <u>and</u></i> <i>b. Certified for civil use by the relevant civil aviation authority.</i> <p><u>Note 2</u></p> <p><i>Category Code ML10.d. does not apply to:</i></p> <ol style="list-style-type: none"> <i>a. Aero-engines designed or modified for military use which have been certified by the relevant civil aviation authority for use in “civil aircraft”, or specially designed components therefor;</i> <i>b. Reciprocating engines or specially designed components therefor, except those specially designed for unmanned airborne vehicles.</i>

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	<p><u>Note 3</u></p> <p><i>The references in Category Codes ML10.b. and ML10.d. to specially designed components and related equipment for non-military “aircraft” or aero-engines modified for military use includes only those military components and military related equipment required for the modification to military use.</i></p>
ML11	<p>Electronic equipment, not specified elsewhere in any part of this Division, as follows, and specially designed components therefor:</p> <p>a. Electronic equipment specially designed for military use;</p> <p><u>Note</u></p> <p><i>Category Code ML11.a. includes:</i></p> <p><i>a. Electronic countermeasure and electronic counter-countermeasure equipment (i.e., equipment designed to introduce extraneous or erroneous signals into radar or radio communication receivers or otherwise hinder the reception, operation or effectiveness of adversary electronic receivers including their countermeasure equipment), including jamming and counter-jamming equipment;</i></p> <p><i>b. Frequency agile tubes;</i></p> <p><i>c. Electronic systems or equipment, designed either for surveillance and monitoring of the electro-magnetic spectrum for military intelligence or security purposes or for counteracting such surveillance and monitoring;</i></p> <p><i>d. Underwater countermeasures, including acoustic and magnetic jamming and decoy, equipment designed to introduce extraneous or erroneous signals into sonar receivers;</i></p> <p><i>e. Data processing security equipment, data security equipment and transmission and signalling line security equipment, using ciphering processes;</i></p> <p><i>f. Identification, authentication and keyloader equipment and key management, manufacturing and distribution equipment;</i></p> <p><i>g. Guidance and navigation equipment;</i></p> <p><i>h. Digital troposcatter-radio communications transmission equipment;</i></p> <p><i>i. Digital demodulators specially designed for signals intelligence;</i></p> <p><i>j. “Automated Command and Control Systems”.</i></p> <p>b. Global Navigation Satellite Systems (GNSS) jamming equipment.</p>
ML12	<p>High velocity kinetic energy weapon systems and related equipment, as follows, and specially designed components therefor:</p> <p>a. Kinetic energy weapon systems specially designed for destruction or</p>

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	<p>effecting mission-abort of a target;</p> <p>b. Specially designed test and evaluation facilities and test models, including diagnostic instrumentation and targets, for dynamic testing of kinetic energy projectiles and systems.</p> <p><u>N.B.</u> <i>For weapon systems using sub-calibre ammunition or employing solely chemical propulsion, and ammunition therefor, see Category Codes ML1 to ML4.</i></p> <p><u>Note 1</u> <i>Category Code ML12 includes the following when specially designed for kinetic energy weapon systems:</i></p> <ul style="list-style-type: none"> <i>a. Launch propulsion systems capable of accelerating masses larger than 0.1 g to velocities in excess of 1.6 km/s, in single or rapid fire modes;</i> <i>b. Prime power generation, electric armour, energy storage, thermal management, conditioning, switching or fuel-handling equipment; and electrical interfaces between power supply, gun and other turret electric drive functions;</i> <i>c. Target acquisition, tracking, fire control or damage assessment systems;</i> <i>d. Homing seeker, guidance or divert propulsion (lateral acceleration) systems for projectiles.</i> <p><u>Note 2</u> <i>Category Code ML12 applies to weapon systems using any of the following methods of propulsion:</i></p> <ul style="list-style-type: none"> <i>a. Electromagnetic;</i> <i>b. Electrothermal;</i> <i>c. Plasma;</i> <i>d. Light gas; <u>or</u></i> <i>e. Chemical (when used in combination with any of the above).</i>
ML13	<p>Armoured or protective equipment, constructions and components, as follows:</p> <p>a. Armoured plate, having any of the following:</p> <ul style="list-style-type: none"> 1. Manufactured to comply with a military standard or specification; <u>or</u> 2. Suitable for military use; <p>b. Constructions of metallic or non-metallic materials, or combinations thereof, specially designed to provide ballistic protection for military systems, and specially designed components therefor;</p>

<i>Product Code</i>	<i>Item Description</i>
	<p>c. Helmets manufactured according to military standards or specifications, or comparable national standards, and specially designed components therefor (i.e., helmet shell, liner and comfort pads);</p> <p>d. Body armour and protective garments manufactured according to military standards or specifications, or equivalent, and specially designed components therefor.</p> <p><u>Note 1</u> <i>Category Code ML13.b. includes materials specially designed to form explosive reactive armour or to construct military shelters.</i></p> <p><u>Note 2</u> <i>Category Code ML13.c. does not apply to conventional steel helmets, neither modified or designed to accept, nor equipped with any type of accessory device.</i></p> <p><u>Note 3</u> <i>Category Codes ML13.c. and ML13.d. do not apply to helmets, body armour or protective garments when accompanying their user for the user's own personal protection.</i></p> <p><u>Note 4</u> <i>The only helmets specially designed for bomb disposal personnel that are specified in Category Code ML13 are those specially designed for military use.</i></p> <p><u>N.B. 1</u> <i>See also Category Code 1A005 in Division 2 of Part II of this Schedule.</i></p> <p><u>N.B. 2</u> <i>For "fibrous or filamentary materials" used in the manufacture of body armour and helmets, see Category Code 1C010 in Division 2 of Part II of this Schedule.</i></p>
ML14	<p>'Specialised equipment for military training' or for simulating military scenarios, simulators specially designed for training in the use of any firearm or weapon specified in Category Code ML1 or ML2, and specially designed components and accessories therefor.</p> <p><u>Technical Note</u> <i>The term 'specialised equipment for military training' includes military types of attack trainers, operational flight trainers, radar target trainers, radar target generators, gunnery training devices, anti-submarine warfare trainers, flight simulators (including human-rated centrifuges for pilot/astronaut training), radar trainers, instrument flight trainers, navigation trainers, missile launch trainers, target equipment, drone "aircraft", armament</i></p>

<i>Product Code</i>	<i>Item Description</i>
	<p><i>trainers, pilotless “aircraft” trainers, mobile training units and training equipment for ground military operations.</i></p> <p><u><i>Note 1</i></u></p> <p><i>Category Code ML14 includes image generating and interactive environment systems for simulators, when specially designed or modified for military use.</i></p> <p><u><i>Note 2</i></u></p> <p><i>Category Code ML14 does not apply to equipment specially designed for training in the use of hunting or sporting weapons.</i></p>
ML15	<p>Imaging or countermeasure equipment, as follows, specially designed for military use, and specially designed components and accessories therefor:</p> <p>a. Recorders and image processing equipment;</p> <p>b. Cameras, photographic equipment and film processing equipment;</p> <p>c. Image intensifier equipment;</p> <p>d. Infrared or thermal imaging equipment;</p> <p>e. Imaging radar sensor equipment;</p> <p>f. Countermeasure or counter-countermeasure equipment for the equipment specified in Category Codes ML15.a. to ML15.e.</p> <p><u><i>Note</i></u></p> <p><i>Category Code ML15.f. includes equipment designed to degrade the operation or effectiveness of military imaging systems or to minimise such degrading effects.</i></p> <p><u><i>Note 1</i></u></p> <p><i>In Category Code ML15, the term specially designed components includes the following, when specially designed for military use:</i></p> <p><i>a. Infrared image converter tubes;</i></p> <p><i>b. Image intensifier tubes (other than first generation);</i></p> <p><i>c. Microchannel plates;</i></p> <p><i>d. Low-light-level television camera tubes;</i></p> <p><i>e. Detector arrays (including electronic interconnection or read out systems);</i></p> <p><i>f. Pyroelectric television camera tubes;</i></p> <p><i>g. Cooling systems for imaging systems;</i></p> <p><i>h. Electrically triggered shutters of the photochromic or electro-optical</i></p>

<i>Product Code</i>	<i>Item Description</i>
	<p><i>type having a shutter speed of less than 100 μs, except in the case of shutters which are an essential part of a high speed camera;</i></p> <p><i>i. Fibre optic image inverters;</i></p> <p><i>j. Compound semiconductor photocathodes.</i></p> <p><u><i>Note 2</i></u></p> <p><i>Category Code ML15 does not apply to “first generation image intensifier tubes” or equipment specially designed to incorporate “first generation image intensifier tubes”.</i></p> <p><u><i>N.B.</i></u></p> <p><i>For the classification of weapons sights incorporating “first generation image intensifier tubes” see Category Codes ML1, ML2 and ML5.a.</i></p> <p><u><i>N.B.</i></u></p> <p><i>See also Category Codes 6A002.a.2. and 6A002.b. in Division 2 of Part II of this Schedule.</i></p>
ML16	<p>Forgings, castings and other unfinished products, the use of which in a specific product is identifiable by material composition, geometry or function, and which are specially designed for any products specified in Category Codes ML1 to ML4, ML6, ML9, ML10, ML12 or ML19.</p>
ML17	<p>Miscellaneous equipment, materials and ‘libraries’, as follows, and specially designed components therefor:</p> <p>a. Self-contained diving and underwater swimming apparatus, as follows:</p> <p>1. Closed or semi-closed circuit (rebreathing) apparatus, specially designed for military use (i.e., specially designed to be non-magnetic);</p> <p>2. Specially designed components for use in the conversion of open-circuit apparatus to military use;</p> <p>3. Articles designed exclusively for military use with self-contained diving and underwater swimming apparatus;</p> <p>b. Construction equipment specially designed for military use;</p> <p>c. Fittings, coatings and treatments, for signature suppression, specially designed for military use;</p> <p>d. Field engineer equipment specially designed for use in a combat zone;</p> <p>e. ‘‘Robots’’, ‘‘robot’’ controllers and ‘‘robot’’ ‘‘end-effectors’’, having any of the following characteristics:</p>

<i>Product Code</i>	<i>Item Description</i>
	<p>1. Specially designed for military use;</p> <p>2. Incorporating means of protecting hydraulic lines against externally induced punctures caused by ballistic fragments (e.g., incorporating self-sealing lines) and designed to use hydraulic fluids with flash points higher than 839 K (566°C); <u>or</u></p> <p>3. Specially designed or rated for operating in an electro-magnetic pulse (EMP) environment;</p> <p><u>Technical Note</u></p> <p><i>Electro-magnetic pulse does not refer to unintentional interference caused by electromagnetic radiation from nearby equipment (e.g., machinery, appliances or electronics) or lightning.</i></p>
	<p>f. ‘Libraries’ (parametric technical databases) specially designed for military use with equipment specified in this Division;</p>
	<p>g. Nuclear power generating equipment or propulsion equipment, including “nuclear reactors”, specially designed for military use and components therefor specially designed or ‘modified’ for military use;</p>
	<p>h. Equipment and material, coated or treated for signature suppression, specially designed for military use, other than those specified elsewhere in this Division;</p>
	<p>i. Simulators specially designed for military “nuclear reactors”;</p>
	<p>j. Mobile repair shops specially designed or ‘modified’ to service military equipment;</p>
	<p>k. Field generators specially designed or ‘modified’ for military use;</p>
	<p>l. Containers specially designed or ‘modified’ for military use;</p>
	<p>m. Ferries, other than those specified elsewhere in this Division, bridges and pontoons, specially designed for military use;</p>
	<p>n. Test models specially designed for the “development” of items specified in Category Code ML4, ML6, ML9 or ML10;</p>
	<p>o. Laser protection equipment (e.g., eye and sensor protection) specially designed for military use.</p>
	<p><u>Technical Notes</u></p> <p>1. <i>For the purpose of Category Code ML17, the term ‘library’ (parametric technical database) means a collection of technical information of a military nature, reference to which may enhance the performance of</i></p>

<i>Product Code</i>	<i>Item Description</i>
	<p><i>military equipment or systems.</i></p> <p>2. <i>For the purpose of Category Code ML17, ‘modified’ means any structural, electrical, mechanical, or other change that provides a nonmilitary item with military capabilities equivalent to an item which is specially designed for military use.</i></p>
ML18	<p>Production equipment and components, as follows:</p> <p>a. Specially designed or modified ‘production’ equipment for the ‘production’ of products specified in this Division, and specially designed components therefor;</p> <p>b. Specially designed environmental test facilities and specially designed equipment therefor, for the certification, qualification or testing of products specified in this Division.</p> <p><u><i>Technical Notes</i></u></p> <p>1. <i>For the purposes of Category Code ML18, the term ‘production’ includes design, examination, manufacture, testing and checking.</i></p> <p>2. <i>Category Codes ML18.a. and ML18.b. include the following equipment:</i></p> <p>a. <i>Continuous nitrators;</i></p> <p>b. <i>Centrifugal testing apparatus or equipment, having any of the following:</i></p> <ol style="list-style-type: none"> 1. <i>Driven by a motor or motors having a total rated horsepower of more than 298 kW (400 hp);</i> 2. <i>Capable of carrying a payload of 113 kg or more; <u>or</u></i> 3. <i>Capable of exerting a centrifugal acceleration of 8 g or more on a payload of 91 kg or more;</i> <p>c. <i>Dehydration presses;</i></p> <p>d. <i>Screw extruders specially designed or modified for military explosive extrusion;</i></p> <p>e. <i>Cutting machines for the sizing of extruded propellants;</i></p> <p>f. <i>Sweetie barrels (tumblers) 1.85 m or more in diameter and having over 227 kg product capacity;</i></p> <p>g. <i>Continuous mixers for solid propellants;</i></p> <p>h. <i>Fluid energy mills for grinding or milling the ingredients of military explosives;</i></p> <p>i. <i>Equipment to achieve both sphericity and uniform particle size in metal powder listed in Category Code ML8.c.8.;</i></p> <p>j. <i>Convection current converters for the conversion of materials listed in Category Code ML8.c.3.</i></p>

<i>Product Code</i>	<i>Item Description</i>
ML19	<p>Directed energy weapon systems (DEW), related or countermeasure equipment and test models, as follows, and specially designed components therefor:</p> <p>a. “Laser” systems specially designed for destruction or effecting mission-abort of a target;</p> <p>b. Particle beam systems capable of destruction or effecting mission-abort of a target;</p> <p>c. High power radio-frequency (RF) systems capable of destruction or effecting mission-abort of a target;</p> <p>d. Equipment specially designed for the detection or identification of, or defence against, systems specified in Category Codes ML19.a. to ML19.c.;</p> <p>e. Physical test models for the systems, equipment and components, specified in Category Code ML19;</p> <p>f. Continuous wave or pulsed “laser” systems, specially designed to cause permanent blindness to unenhanced vision, i.e., to the naked eye or to the eye with corrective eyesight devices.</p>
	<p><u>Note 1</u></p> <p><i>Directed energy weapon systems specified in Category Code ML19 include systems whose capability is derived from the controlled application of:</i></p> <p>a. “Lasers” of sufficient continuous wave or pulsed power, to effect destruction similar to the manner of conventional ammunition;</p> <p>b. Particle accelerators which project a charged or neutral particle beam with destructive power;</p> <p>c. High pulsed power or high average power radio frequency beam transmitters, which produce fields sufficiently intense to disable electronic circuitry at a distant target.</p> <p><u>Note 2</u></p> <p><i>Category Code ML19 includes the following when specially designed for directed energy weapon systems:</i></p> <p>a. Prime power generation, energy storage, switching, power conditioning or fuel-handling equipment;</p> <p>b. Target acquisition or tracking systems;</p> <p>c. Systems capable of assessing target damage, destruction or mission-abort;</p> <p>d. Beam-handling, propagation or pointing equipment;</p>

<i>Product Code</i>	<i>Item Description</i>
	<p><i>e. Equipment with rapid beam slew capability for rapid multiple target operations;</i></p> <p><i>f. Adaptive optics and phase conjugators;</i></p> <p><i>g. Current injectors for negative hydrogen ion beams;</i></p> <p><i>h. “Space qualified” accelerator components;</i></p> <p><i>i. Negative ion beam funnelling equipment;</i></p> <p><i>j. Equipment for controlling and slewing a high energy ion beam;</i></p> <p><i>k. “Space qualified” foils for neutralising negative hydrogen isotope beams.</i></p>
ML20	<p>Cryogenic and “superconductive” equipment, as follows, and specially designed components and accessories therefor:</p> <p>a. Equipment specially designed or configured to be installed in a vehicle for military ground, marine, airborne or space applications, capable of operating while in motion and of producing or maintaining temperatures below 103 K (–170°C);</p> <p><u>Note</u></p> <p><i>Category Code ML20.a. includes mobile systems incorporating or employing accessories or components manufactured from non-metallic or non-electrical conductive materials, such as plastics or epoxy-impregnated materials.</i></p> <p>b. “Superconductive” electrical equipment (rotating machinery and transformers) specially designed or configured to be installed in a vehicle for military ground, marine, airborne or space applications and capable of operating while in motion.</p> <p><u>Note</u></p> <p><i>Category Code ML20.b. does not apply to direct-current hybrid homopolar generators that have single-pole normal metal armatures which rotate in a magnetic field produced by superconducting windings, provided those windings are the only superconducting components in the generator.</i></p>
ML21	“Software” as follows:
	a. “Software” specially designed or modified for the “development”, “production” or “use” of equipment, materials or “software”, specified in this Division;
	b. Specific “software”, other than that specified in Category Code ML21.a., as follows:
	1. “Software” specially designed for military use and specially designed

<i>Product Code</i>	<i>Item Description</i>
	for modelling, simulating or evaluating military weapon systems;
	2. “Software” specially designed for military use and specially designed for modelling or simulating military operational scenarios;
	3. “Software” for determining the effects of conventional, nuclear, chemical or biological weapons;
	4. “Software” specially designed for military use and specially designed for Command, Communications, Control and Intelligence (C ³ I) or Command, Communications, Control, Computer and Intelligence (C ⁴ I) applications;
	c. “Software”, not specified in Category Code ML21.a., or ML21.b., specially designed or modified to enable equipment not specified in this Division to perform the military functions of equipment specified in this Division.
ML22	“Technology” as follows:
	a. “Technology”, other than specified in Category Code ML22.b, which is “required” for the “development”, “production” or “use” of items specified in this Division;
	b. “Technology” as follows:
	1. “Technology” “required” for the design of, the assembly of components into, and the operation, maintenance and repair of, complete production installations for items specified in this Division, even if the components of such production installations are not specified;
	2. “Technology” “required” for the “development” and “production” of small arms, even if used to produce reproductions of antique small arms;
	3. “Technology” “required” for the “development”, “production” or “use” of toxicological agents, related equipment or components specified in Category Codes ML7.a. to ML7.g.;
	4. “Technology” “required” for the “development”, “production” or “use” of “biopolymers” or cultures of specific cells, specified in Category Code ML7.h.;
	5. “Technology” “required” exclusively for the incorporation of “biocatalysts”, specified in Category Code ML7.i.1., into military carrier substances or military material.
	<u>Note 1</u> “Technology” “required” for the “development”, “production” or “use” of items specified in this Division is considered to fall within Category Code

<i>Product Code</i>	<i>Item Description</i>
	<p><i>ML22 even when applicable to any goods which applicable to any item no specified in this Division.</i></p> <p><u><i>Note 2</i></u></p> <p><i>Category Code ML22 does not include “technology” for magnetic induction for continuous propulsion of civil transport devices.</i></p>