

SCHEDULE 1

Articles 2, 24

GOODS SUBJECT TO STRICTER EXPORT AND TRADE CONTROLS

Note: In this Schedule, defined terms are printed in quotation marks.

Definitions

In this Schedule:

“cluster munitions” means conventional munitions designed to disperse or release “explosive submunitions”;

“explosive bomblets” means conventional munitions, weighing less than 20 kilograms each, which are not self propelled and which, in order to perform their task, are specially designed to be dispersed or released by a dispenser affixed to an aircraft, and are designed to function by detonating an explosive charge prior to, on or after impact;

“explosive submunitions” means conventional munitions, weighing less than 20 kilograms each, which in order to perform their task are dispersed or released by another conventional munition and are designed to function by detonating an explosive charge prior to, on or after impact;

“ordinary handcuffs” means handcuffs which have an overall dimension including chain, measured from the outer edge of one cuff to the outer edge of the other cuff, between 150 and 240mm when locked and have not been modified to cause physical pain or suffering;

“production” has the same meaning as in Schedule 2;

“a self-deactivating feature” is one which automatically renders a munition inoperable by means of the irreversible exhaustion of a component (eg, a battery) that is essential to the operation of the munition;

“a self-destruction mechanism” is an incorporated, automatically-functioning mechanism which is in addition to the primary initiating mechanism of a munition and which secures the destruction of the munition into which it is incorporated.

PART 1

CATEGORY A GOODS

Certain Security and Para-Military Police Equipment

1. Goods designed for the execution of human beings, as follows—
 - (a) Gallows and guillotines;
 - (b) Electric chairs;
 - (c) Air-tight vaults made of eg, steel and glass, designed for the purpose of execution of human beings by the administration of lethal gas or substance;
 - (d) Automatic drug injection systems designed for the purpose of execution of human beings by the administration of a lethal chemical substance.
2. Restraints specially designed for restraining human beings, as follows—
 - (a) Leg-irons, gangchains, shackles and individual cuffs or shackle bracelets except those that are “ordinary handcuffs”;
 - (b) Restraint chairs unless designed for disabled persons;
 - (c) Shackle boards;

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- (d) Thumb-cuffs and thumb-screws, including serrated thumb-cuffs;
- (e) Electric shock belts.

3. Portable devices designed or modified for the purpose of riot control or self-protection by the administration of an electric shock (eg, electric-shock batons, electric-shock shields, stun-guns and electric-shock dart-guns).

- 4. Components specially designed or modified for the devices in paragraph 3.
- 5. Hand-held, spiked batons.

Cluster munitions, explosive submunitions and explosive bomblets

- 6. “Cluster munitions” other than those munitions described at paragraph 10.
- 7. “Explosive submunitions” other than those submunitions described at paragraph 10.
- 8. “Explosive bomblets”.
- 9. Components specially designed for “cluster munitions”, “explosive submunitions” or “explosive bomblets”.
- 10. Paragraphs 6 and 7 do not include the following conventional munitions:
 - (a) a munition or submunition designed to dispense flares, smoke, pyrotechnics or chaff; or a munition designed exclusively for an air defence role;
 - (b) a munition or submunition designed to produce electrical or electronic effects;
 - (c) a munition that has all of the following characteristics:
 - (i) each munition contains fewer than ten “explosive submunitions”;
 - (ii) each “explosive submunition” weighs more than four kilograms;
 - (iii) each “explosive submunition” is designed to detect and engage a single target object;
 - (iv) each “explosive submunition” is equipped with an electronic “self-destruction mechanism”;
 - (v) each “explosive submunition” is equipped with an electronic “self-deactivating feature”.

PART 2

CATEGORY B GOODS

Small arms and light weapons within ML1 and ML2

11. “Goods” specified in entry ML1.a., ML1.b., ML1.c. or ML2 in Schedule 2 that are designed to be carried, operated and fired by an individual or by three or fewer individuals acting together, other than—

- (a) “goods” specified in entry ML2.b. in that Schedule; and
- (b) mortars with a calibre of 100mm or more.

Accessories and ammunition for small arms and light weapons within ML1 and ML2

- 12. The following “goods”—
 - (a) accessories specified in entry ML1.d. that are capable of being used in connection with weapons falling within paragraph 11; and

- (b) ammunition that is capable of being fired or launched by weapons falling within paragraph 11.

Light weapons within ML4

- 13. Equipment specified in entry ML4.b. in Schedule 2 that is—
 - (a) specially designed for firing or launching rockets, grenades, missiles or other explosive devices; and
 - (b) designed to be carried, operated and fired by an individual or by three or fewer individuals acting together.

Ammunition for light weapons within ML4

- 14. Rockets, grenades, missiles and other explosive devices that are—
 - (a) specified in entry ML4 in Schedule 2; and
 - (b) capable of being fired or launched from equipment falling within paragraph 13.

Hand grenades

- 15. Grenades specified in entry ML4 in Schedule 2 that are designed to be thrown.

MANPADS, missiles for them, associated equipment and their specially designed components

- 16. To the extent they do not fall within paragraph 13 or 14, the following “goods”—
 - (a) man-portable air defence systems (MANPADS), as follows:
 - (i) surface-to-air missile systems designed to be man-portable and operated and fired by a single individual;
 - (ii) surface-to-air missile systems designed to be operated and fired by more than one individual acting as a crew and portable by several individuals;
 - (b) missiles for MANPADS;
 - (c) “production” equipment specially designed for MANPADS;
 - (d) field test equipment specially designed for MANPADS;
 - (e) specialised training equipment and simulators for MANPADS.

Long-range missiles

- 17. Missiles capable of a range of 300km or more that fall within Schedule 2.

Components for “goods” within this Part

- 18. Components specially designed for “goods” falling within any of paragraphs 11 to 17.

SCHEDULE 2

Article 2

MILITARY GOODS, SOFTWARE AND TECHNOLOGY

Note: In this Schedule, defined terms are printed in quotation marks.

Definitions

In this Schedule:

“adapted for use in war” means any modification or selection (eg, altering purity, shelf life, virulence, dissemination characteristics, or resistance to ultra violet (UV) radiation) designed to increase the effectiveness in producing casualties in humans or animals, degrading equipment or damaging crops or the environment;

“biocatalyst” means enzymes for specific chemical or biochemical reactions and other biological compounds which bind to and accelerate the degradation of chemical warfare (CW) agents;

“biopolymer” means the following biological macromolecules:

- a. enzymes for specific chemical or biochemical reactions;
- b. ‘monoclonal antibodies’, ‘polyclonal antibodies’ or ‘anti-idiotypic antibodies’;
- c. specially designed or specially processed ‘receptors’;

Technical Note:

‘Monoclonal antibodies’ means proteins which bind to a specific antigenic site and are produced by a single clone of cells;

‘Polyclonal antibodies’ means a mixture of proteins which bind to a specific antigen and are produced by more than one clone of cells;

‘Anti-idiotypic antibodies’ means antibodies which bind to the specific antigen binding sites of other antibodies;

‘Receptors’ means biological macromolecular structures capable of binding ligands, the binding of which affects physiological functions.

“development” means all stages prior to “production” (eg, design, design research, design analyses, design concepts, assembly and testing of prototypes, pilot production schemes, design data, process of transforming design data into “goods” or “software”, configuration design, integration design, layouts);

“end-effectors” means grippers, active tooling units (ie, devices for applying motive power, process energy or sensing to the workpiece) and any other tooling that is attached to the baseplate on the end of a “robot” manipulator arm;

“energetic materials” means substances or mixtures that react chemically to release energy required for their intended application; “explosives”, “pyrotechnics” and “propellants” are sub-classes of energetic materials;

“explosive signatures” are features which are characteristic of explosives in any form prior to their initiation, as detected using technology including, but not limited to, ion mobility spectrometry, chemiluminescence, fluorescence, nuclear, acoustic or electromagnetic techniques;

“explosives” means solid, liquid or gaseous substances or mixtures of substances which, in their application as primary, booster, or main charges in warheads, demolition and other applications, are required to detonate;

“expression vectors” means carriers (eg, plasmid or virus) used to introduce genetic material into host cells;

“first generation image intensifier tubes” means electrostatically focused tubes, employing input and output fibre optic or glass face plates, multi-alkali photocathodes (S-20 or S-25), but not microchannel plate amplifiers;

“improvised explosive devices” means devices fabricated or intended to be placed in an improvised manner incorporating destructive, lethal, noxious, “pyrotechnic” or incendiary chemicals designed to destroy, disfigure or harass; they may incorporate military stores, but are normally devised from non-military components;

“laser” means an assembly of components which produce both spatially and temporally coherent light which is amplified by stimulated emission of radiation;

“lighter-than-air vehicles” means balloons and airships that rely on hot air or on lighter-than-air gases such as helium or hydrogen for their lift;

“nuclear reactor” means the “goods” within or attached directly to the reactor vessel, the equipment which controls the level of power in the core, and the components which normally contain, come into direct contact with or control the primary coolant of the reactor core;

“production” means all production stages (eg, product engineering, manufacture, integration, assembly (mounting), inspection, testing, quality assurance);

“propellants” means substances or mixtures that react chemically to produce large volumes of hot gases at controlled rates to perform mechanical work;

“pyrotechnic(s)” means mixtures of solid or liquid fuels and oxidisers which, when ignited, undergo an energetic chemical reaction at a controlled rate intended to produce specific time delays, or quantities of heat, noise, smoke, visible light or infrared radiation; pyrophorics are a subclass of pyrotechnics, which contain no oxidisers but ignite spontaneously on contact with air;

“required” as applied to “technology”, refers to only that portion of “technology” which is peculiarly responsible for achieving or exceeding the controlled performance levels, characteristics or functions. Such “required” “technology” may be shared by different “goods” and the intended use of “technology” is irrelevant to whether it is “required”;

“riot control agents” means substances which under the expected conditions of use for riot control purposes, produce rapidly in humans sensory irritation or disabling physical effects which disappear within a short time following termination of exposure;

Technical Note:

Tear gases are a subset of “riot control agents”.

“robot” means a manipulation mechanism, which may be of the continuous path or of the point-to-point variety, may use sensors, and which:

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- a. is multifunctional;
- b. is capable of positioning or orienting material, parts, tools or special devices through variable movements in three dimensional space;
- c. incorporates three or more closed or open loop servo-devices which may include stepping motors; and
- d. has “user-accessible programmability” by means of the teach/playback method or by means of an electronic computer which may be a programmable logic controller, ie, without mechanical intervention;

Note: This definition does not include:

- a. *Manipulation mechanisms which are only manually/teleoperator controllable;*
- b. *Fixed sequence manipulation mechanisms, which are automated moving devices, operating according to “programmes” where the motions are limited by fixed stops, such as pins or cams and the sequence of motions and the selection of paths or angles are not variable or changeable by mechanical, electronic or electrical means;*
- c. *Mechanically controlled variable sequence manipulation mechanisms, which are automated moving devices, operating according to “programmes” where the motions are limited by fixed, but adjustable stops, such as pins or cams and the sequence of motions and the selection of paths or angles are variable within the fixed programme pattern; variations or modifications of the programme pattern (such as changes of pins or exchanges of cams) in one or more motion axes are accomplished only through mechanical operations;*
- d. *Non-servo-controlled variable sequence manipulation mechanisms, which are automated moving devices, operating according to mechanically fixed programmed motions; the “programme” is variable but the sequence proceeds only by the binary signal from mechanically fixed electrical binary devices or adjustable stops;*
- e. *Stacker cranes defined as Cartesian coordinate manipulator systems manufactured as an integral part of a vertical array of storage bins and designed to access the contents of those bins for storage or retrieval.*

“special gun-mounting” means any fixture designed to mount a gun;

“superconductive” in relation to materials (eg, metals, alloys or compounds) means those which can lose all electrical resistance (ie, which can attain infinite electrical conductivity and carry very large electrical currents without Joule heating); the superconductive state of a material is individually characterised by a ‘critical temperature’, a critical magnetic field, which is a function of temperature, and a critical current density which is a function of both magnetic field and temperature;

Technical Note:

‘Critical temperature’ (also known as the transition temperature) of a specific “superconductive” material means the temperature at which the specific material loses all resistance to the flow of direct electrical current.

“technology” means specific ‘information’ necessary for the “development”, “production” or “use” of “goods” or “software”;

Technical Note:

'Information' may take forms including, not limited to: blueprints, plans, diagrams, models, formulae, tables, 'source code', engineering designs and specifications, manuals and instructions written or recorded on other media or devices (eg, disk, tape, read-only memories);

'source code' (or source language) is a convenient expression of one or more processes which may be turned by a programming system into equipment executable form.

“use” means operation, installation (eg, on-site installation), maintenance, checking, repair, overhaul and refurbishing;

“user-accessible programmability” means the facility allowing a user to insert, modify or replace “programmes” by means other than:

- a. A physical change in writing or interconnections; or
- b. The setting of function controls including entry of parameters.

PART 1

MILITARY, SECURITY AND PARA-MILITARY GOODS, SOFTWARE AND TECHNOLOGY AND ARMS, AMMUNITION AND RELATED MATERIEL

ML1 Smooth-bore weapons with a calibre of less than 20 mm, other firearms 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:

- a. Rifles, carbines, revolvers, pistols, machine pistols and machine guns;
- b. Smooth-bore weapons;
- c. Weapons using caseless ammunition;
- d. Silencers, “special gun-mountings”, weapon sights, clips and flash suppressors for firearms specified in ML1.a., ML1.b. or ML1.c.

Note: *ML1 does not control:*

- a. *Air weapons (other than those declared by the Firearms (Dangerous Air Weapons) Rules 1969(1) to be specially dangerous);*
- b. *Firearms specially designed for dummy ammunition and which are incapable of firing any ammunition in this Part of this Schedule;*
- c. *Firearms certified by a registered UK Proof House as having been rendered incapable of firing any ammunition in this Part of this Schedule;*
- d. *Bayonets;*

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- e. *Air (pneumatic) or cartridge (explosive) powered guns or pistols designed as:*
 - 1. *Industrial tools; or*
 - 2. *Humane stunning devices employed specifically for animal slaughter;*
- f. *Signal pistols*
- g. *Optical weapon sights without electronic image processing (ie, using only lenses to view the target) , with a magnification of 4 times or less, provided they are not specifically designed or modified for military use.*

ML2 Smooth-bore weapons with a calibre of 20 mm or more, other armament or weapons with a calibre greater than 12.7 mm (calibre 0.50 inches), projectors and accessories, as follows, and specially designed components therefor:

- a. Guns, howitzers, cannon, mortars, anti-tank weapons, projectile launchers, military flame throwers, rifles, recoilless rifles, smooth-bore weapons and signature reduction devices therefor;
- b. Military smoke, gas and “pyrotechnic” projectors or generators;
- c. Weapons sights for firearms specified in ML2.a. or ML2.b.

Note 1: ML2 does not control signal pistols.

Note 2: 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 500m or less.

ML3 Ammunition and fuze setting devices, as follows, and specially designed components therefor:

- a. Ammunition for weapons specified in ML1, ML2 or ML12;

Note: ML3.a. does not control:

- a. *Ammunition crimped without a projectile (blank star) and dummy ammunition with a pierced powder chamber;*
- b. *Lead or lead alloy pellet ammunition specially designed for air weapons;*
- c. *Cartridges specially designed for signalling, bird scaring or lighting of gas flares at oil wells.*

- b. Fuze setting devices specially designed for ammunition specified in ML3.a.

ML4 Bombs, torpedoes, rockets, missiles, other explosive devices and charges, and related equipment and accessories, as follows, and specially designed components therefor:

N.B. 1: Electronic guidance and navigation equipment is controlled in ML11.a.

N.B. 2: Aircraft missile protection systems are controlled in ML4.c.

- a. Bombs, torpedoes, grenades, smoke canisters, rockets, mines, missiles, depth charges, demolition-charges, demolition-devices, demolition-kits, devices that contain “pyrotechnics”, cartridges and simulators (ie, equipment simulating the characteristics of any of these “goods”), specially designed for military use;
- b. Equipment that is both specially designed for military use and specially designed for the handling, controlling, activating, powering with one-time operational output, launching, laying, sweeping, discharging, decoying, jamming, detonating, disrupting or detecting of any of the following:
 - 1. “goods” specified in ML4.a.; or
 - 2. “improvised explosive devices”;

Note: ML4.b. does not control hand held devices limited by design solely to the detection of metal objects and incapable of distinguishing between mines and other metal objects.

- c. Aircraft missile protection systems (AMPS).

ML5 Fire control equipment and related alerting and warning equipment, related systems, test and alignment and countermeasure equipment, as follows, specially designed for military use, and specially designed components and accessories therefor:

- a. Weapon sights, bombing computers, gun laying equipment and weapon control systems;
- b. Target acquisition, designation, range-finding, surveillance or tracking systems; detection, data fusion, recognition or identification equipment; and sensor integration equipment;
- c. Countermeasure equipment for “goods” specified in ML5.a. or ML5.b.;
- d. Field test or alignment equipment, specially designed for “goods” specified in ML5.a. or ML5.b.

ML6 Ground “vehicles” and components as follows:

N.B. Electronic guidance and navigation equipment is controlled in ML.II.a.

- a. Ground “vehicles” and components therefor, specially designed or modified for military use;

Technical Note:

For the purposes of ML6.a.. the term ground “vehicles” includes trailers.

Note: In ML6.a. modification of a ground “vehicle” for military use entails a structural, electrical or mechanical change involving one or more specially designed military components.

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- b. All-wheel drive “vehicles” capable of off-road use which have been manufactured or fitted with metallic or non-metallic materials to provide ballistic protection, other than those specified in ML6.a.

Note 1: ML6.b. does not control “vehicles” designed or fitted out for the transportation of valuables or funds.

Note 2: ML6.b. does not control “vehicles” fitted with, or designed or modified to be fitted with, a plough, flail or tiller for the purpose of land mine clearance.

PL5035 Components that are both specially designed to provide ballistic protection and specially designed or modified for “vehicles” specified in ML6.b.

N.B. See also ML13.a. for armoured plate.

ML7 Chemical or biological toxic agents, toxic chemicals and mixtures containing such agents or chemicals, “riot control agents”, radioactive materials, related equipment, components and materials as follows:

Note: Chemicals are listed by name and Chemical Abstract Service (CAS) number. Chemicals of the same structural formula (eg, hydrates) are controlled regardless of name or CAS number. CAS numbers are shown to assist in identifying whether a particular chemical or mixture is controlled, irrespective of nomenclature. CAS numbers cannot be used as unique identifiers because some forms of the listed chemical have different CAS numbers, and mixtures containing a listed chemical may also have different CAS numbers.

- 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, but not limited to, the following:

1. CW nerve agents:

- a. O-Alkyl (equal to or less than C₁₀, including cycloalkyl) alkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-phosphonofluoridates, such as:

Sarin (GB):O-Isopropyl methylphosphonofluoridate (CAS 107-44-8); and

Soman (GD):O-Pinacolyl methylphosphonofluoridate (CAS 96-64-0);

- b. O-Alkyl (equal to or less than C₁₀, including cycloalkyl) N,N-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphoramidocyanidates, such as:

Tabun (GA):O-Ethyl N,N-dimethylphosphoramidocyanidate (CAS 77-81-6);

- 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:

VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate (CAS 50782-69-9);

2. CW vesicant agents:
 - a. Sulphur mustards, such as:
 1. 2-Chloroethylchloromethylsulphide (CAS 2625-76-5);
 2. Bis(2-chloroethyl) sulphide (CAS 505-60-2);
 3. Bis(2-chloroethylthio) methane (CAS 63869-13-6);
 4. 1,2-bis (2-chloroethylthio) ethane (CAS 3563-36-8);
 5. 1,3-bis (2-chloroethylthio)-n-propane (CAS 63905-10-2);
 6. 1,4-bis (2-chloroethylthio)-n-butane (CAS 142868-93-7);
 7. 1,5-bis (2-chloroethylthio)-n-pentane (CAS 142868-94-8);
 8. Bis (2-chloroethylthiomethyl) ether (CAS 63918-90-1);
 9. Bis (2-chloroethylthioethyl) ether (CAS 63918-89-8);
 - b. Lewisites, such as:
 1. 2-chlorovinylchloroarsine (CAS 541-25-3);
 2. Tris (2-chlorovinyl) arsine (CAS 40334-70-1);
 3. Bis (2-chlorovinyl) chloroarsine (CAS 40334-69-8);
 - c. Nitrogen mustards, such as:
 1. HN1: bis (2-chloroethyl) ethylamine (CAS 538-07-8);
 2. HN2: bis (2-chloroethyl) methylamine (CAS 51-75-2);
 3. HN3: tris (2-chloroethyl) amine (CAS 555-77-1);
3. CW Incapacitating agents, such as:
 - a. 3-Quinuclidinyl benzilate (BZ) (CAS 6581-06-2);
4. CW defoliants, such as:
 - a. Butyl 2-chloro-4-fluorophenoxyacetate (LNF);
 - b. 2,4,5-trichlorophenoxyacetic acid mixed with 2,4-dichlorophenoxyacetic acid (Agent Orange);

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- c. CW binary precursors and key precursors, as follows, and chemical mixtures containing one or more of these precursors:
1. Alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) Phosphonyl Difluorides, such as:
DF: Methyl Phosphonyldifluoride (CAS 676-99-3);
 2. O-Alkyl (H equal to or less than C₁₀, including cycloalkyl) O-2-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphonite and corresponding alkylated and protonated salts, such as:
QL: O-Ethyl-2-di-isopropylaminoethyl methylphosphonite (CAS 57856-11-8);
 3. Chlorosarin: Q-Isopropyl methylphosphonochloridate (CAS 1445-76-7);
 4. Chlorosoman O-Pinacolyl methylphosphonochloridate (CAS 7040-57-5);
- d. “Riot control agents”, active constituent chemicals and combinations thereof including:
1. α -Bromobenzeneacetonitrile, (Bromobenzyl cyanide) (CA) (CAS 5798-79-8);
 2. [2-chlorophenyl] methylene] propanedinitrile, (o-Chlorobenzylidenemalononitrile) (CS) (CAS 2698-41-1);
 3. 2-Chloro-1-phenylethanone, Phenylacetyl chloride (o-chloroacetophenone) (CN) CAS 532-27-4);
 4. Dibenz-(b,f)-1,4-oxazepine (CR) (CAS 257-07-8);
 5. 10-Chloro-5,10-dihydrophenarsazine, (Phenarsazine chloride), (Adamsite), (DM) (CAS 578-94-9);
 6. N-Nonanoylmorpholine, (MPA) (CAS 5299-64-9);
- Note 1:* ML7.d. does not control “riot control agents” individually packaged for personal self-defence purposes.
- Note 2:* ML7.d. does not control active constituent chemicals and combinations thereof identified and packaged for food production or medical purposes.
- 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:
1. Materials or agents specified in ML7.a., ML7.b. or ML7.d.;
 2. CW agents made up of precursors specified in ML7.c.;
- f. Protective and decontamination “goods”, specially designed or modified for military use, components and chemical mixtures as follows:
1. “Goods” designed or modified for defence against materials specified in ML7.a., ML7.b. or ML7.d. and specially designed components therefor;

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N.B.: See also 1A of Annex I to “the dual-use Regulation”.

2. “Goods” designed or modified for decontamination of “goods” contaminated with materials specified in ML7.a. or ML7.b. and specially designed components therefor;
 3. Chemical mixtures specially developed or formulated for the decontamination of “goods” contaminated with materials specified in ML7.a. or ML7.b.;
- g. “Goods” specially designed or modified for military use, designed or modified for the detection or identification of materials specified in ML7.a., ML7.b. or ML7.d. and specially designed components therefor;

N.B.: See also 1A in Annex I to “the dual-use Regulation”.

Note: ML7.g. does not control personal radiation monitoring dosimeters.

- h. “Biopolymers” specially designed or processed for the detection or identification of CW agents specified in 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:
1. “Biocatalysts” specially designed for the decontamination or degradation of CW agents specified in ML7.b. resulting from directed laboratory selection or genetic manipulation of biological systems;
 2. Biological systems as follows: “expression vectors”, viruses or cultures of cells containing the genetic information specific to the “production” of “biocatalysts” specified in ML7.i.1.

Note 1: ML7.b. and ML7.d. do not control:

a. Cyanogen chloride (CAS 506-77-4);

N.B.: See 1C of Annex I to “the dual-use Regulation”.

b. Hydrocyanic acid (CAS 74-90-8);

c. Chlorine (CAS 7782-50-5);

d. Carbonyl chloride (phosgene) (CAS 75-44-5);

N.B.: See 1C of Annex I to “the dual-use Regulation”.

e. Diphosgene (trichloromethyl-1-chloroformate) (CAS 503-38-8);

f. Not used;

g. Xylyl bromide: ortho: (CAS 89-92-9), meta: (CAS 620-13-3), para: (CAS 104-81-4);

h. Benzyl bromide (CAS 100-39-01);

i. Benzyl iodide (CAS 620-05-3);

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- j.* Bromo acetone (CAS 598-31-2);
- k.* Cyanogen bromide (CAS 506-68-3);
- l.* Bromo methylethylketone (CAS 816-40-0);
- m.* Chloro acetone (CAS 78-95-5);
- n.* Ethyl iodoacetate (CAS 623-48-3);
- o.* Iodo acetone (CAS 3019-04-3);
- p.* Chloropicrin (CAS 76-06-2);
N.B.: See IC of Annex I to “the dual-use Regulation”.
- q.* Pelargonic acid vanillylamide (PAVA) (CAS 2444-46-4);
N.B.: See 3.2. of Annex III to “the torture Regulation”.
- r.* Oleoresin capsicum (OC) (CAS 8023-77-6).
N.B.: See 3.3. of Annex III to “the torture Regulation”.

Note 2: The cultures of cells and biological systems specified in ML7.h. and ML7.i.2. are exclusive and ML7.h. and ML7.i.2 do not include cells or biological systems for civil purposes, (eg, agricultural, pharmaceutical, medical, veterinary, environmental, waste management, or in the food industry).

ML8 “Energetic materials”, and related substances, as follows

Note: Chemicals are listed by name and Chemical Abstract Service (CAS) number. Chemicals of the same structural formula (eg, hydrates) are controlled regardless of name or CAS number. CAS numbers are shown to assist in identifying whether a particular chemical or mixture is controlled, irrespective of nomenclature. CAS numbers cannot be used as unique identifiers because some forms of the listed chemical have different CAS numbers, and mixtures containing a listed chemical may also have different CAS numbers.

Technical Note:

A ‘mixture’ refers to a composition of two or more substances with at least one substance being controlled in ML8.

- a.* “Explosives”, as follows, and ‘mixtures’ thereof:
 1. ADNBF (aminodinitrobenzofuroxan or 7-amino-4,6-dinitrobenzofurazane-1-oxide) (CAS 97096-78-1);
 2. BNCP (cis-bis (5-nitrotetrazolato) tetra amine-cobalt (III) perchlorate) (CAS 117412-28-9);

Status: This is the original version (as it was originally made).

3. CL-14 (diamino dinitrobenzofuroxan or 5,7-diamino-4,6-dinitrobenzofurazane-1-oxide) (CAS 117907-74-1);
4. CL-20 (HNIW or Hexanitrohexaazaisowurtzitane) (CAS 135285-90-4; chlrathrates of CL-20);
5. CP (2-(5-cyanotetrazolato)penta amine-cobalt (III) perchlorate) (CAS 70247-32-4);
6. DADE (1,1-diamino-2,2-dinitroethylene, FOX7);
7. DATB (diaminotrinitrobenzene) (CAS 1630-08-6);
8. DDFP (1,4-dinitrodifurazanopiperazine);
9. DDPO (2,6-diamino-3,5-dinitropyrazine-1-oxide, PZO) (CAS 194486-77-6);
10. DIPAM (3,3'-diamino-2,2',4,4',6,6'-hexanitrobiphenyl or dipicramide) (CAS 17215-44-0);
11. DNGU (DINGU or dinitroglycoluril) (CAS 55510-04-8);
12. Furazans as follows:
 - a. DAAOF (diaminoazoxyfurazan);
 - b. DAAzF (diaminoazofurazan) (CAS 78644-90-3);
13. HMX and derivatives as follows:
 - a. HMX (Cylotetramethylenetetranitramine, octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine, 1,3,5,7-tetranitro-1,3,5,7-tetraza-cyclooctane, octogen or octogene) (CAS 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) (CAS 130256-72-3);
14. HNAD (hexanitroadamantane) (CAS 143850-71-9);
15. HNS (hexanitrostilbene) (CAS 2006-22-0);
16. Imidazoles as follows:
 - a. BNNII (Octahydro-2,5-bis(nitroimino)imidazo [4,5-d]imidazole);
 - b. DNI (2,4-dinitroimidazole) (CAS 5213-49-0);
 - c. FDIA (1-fluroro-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) (CAS 932-64-9);
19. Polynitrocubanes with more than four nitro groups;

Status: This is the original version (as it was originally made).

20. PYX (2,6-bis(picrylamino)-3,5-dinitropyridine) (CAS 38082-89-2);
21. RDA 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-triaza-cyclohexane, hexogen or hexogene) (CAS 121-82-4);
 - b. Keto-RDX (K-6 or 2,4,6-trinitro-2,4,6-triazacyclohexanone) (CAS 115029-35-1);
22. TAGN (tranimoguanidinenitrate) (CAS 4000-16-2);
23. TATB (triaminotrinitrobenzene) (CAS 3058-38-6);
24. TEDDZ (3,3,7,7-tetrabis(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) (CAS 479-45-8);
27. TNAD (1,4,5,8-tetranitro-1,4,5,8-tetraazadecalin) (CAS 135877-16-6);
28. TNAZ (1,3,3-trinitroazetidine) (CAS 97645-24-4);
29. TNGU (SORGUYL or tetranitroglycoluril) (CAS 55510-03-7);
30. TNP (1,4,5,8-tetranitro-pyridazino[4,5-d]pyridazine) (CAS 229176-04-9);
31. Triazines as follows:
 - a. DNAM (2-oxy-4,6-dinitroamino-s-triazine) (CAS 19899-80-0);
 - b. NNHT (2-nitroimino-5-nitro-hexahydro-1,3,5-triazine) (CAS 130400-13-4);
32. Triazoles as follows:
 - a. 5-azido-2-nitrotriazole;
 - b. ADHTDN (4-amino-3,5-dihydrazino-1,2,4-triazole dinitramide) (CAS 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) (CAS 30003-46-4);
 - f. DNBT (dinitrobistriazole) (CAS 70890-46-9);
 - g. NTDNA (2-nitrotriazole-5-dinitramide) (CAS 75393-84-9);

- h. NTDNT (1-N-(2-nitrotriazolo)-3,5-dinitrotriazole);
 - i. PDNT (1-picryl-3,5-dinitrotriazole);
 - j. TACOT (tetranitrobenzotriazolobenzotriazole) (CAS 25243-36-1);
33. “Explosives” not listed elsewhere in 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 ML8.a. yielding detonation pressures of 25 GPa (250 kbar) or more that will remain stable at temperatures of 523 K (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 stead-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 294 K (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 ML8.a.;
- c. “Pyrotechnics”, fuels and related substances, as follows, and ‘mixtures’ thereof:
- 1. Aircraft fuels specifically formulated for military purposes;
Note: Aircraft fuels in ML8.c.1. are finished “goods”, not their constituents.
 - 2. Alane (aluminium hydride) (CAS 7784-21-6);
 - 3. Carboranes; decaborane (CAS 17702-41-9); pentaboranes (CAS 19624-22-7 and 18433-84-6) and their derivatives;
 - 4. Hydrazine and derivatives as follows (see also ML8.d.8. and ML8.d.9. for oxidising hydrazine derivatives);
 - a. Hydrazine (CAS 302-01-2) in concentrations of 70% or more;

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Note: ML8.c.4.a. does not control hydrazine 'mixtures' specially formulated for corrosion control.

- b. Monomethyl hydrazine (CAS 60-34-4);
 - c. Symmetrical dimethyl hydrazine (CAS 540-73-8);
 - d. Unsymmetrical dimethyl hydrazine (CAS 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:
- a. Metals as follows and 'mixtures' thereof:
 - 1. Beryllium (CAS 7440-41-7) in particle sizes of less than 60µm;
 - 2. Iron powder (CAS 7439-89-6) with particle size of 3µm or less produced by reduction of iron oxide with hydrogen;
 - b. 'Mixtures' containing any of the following:
 - 1. Zirconium (CAS 7440-67-7), magnesium (CAS 7439-95-4) or alloys of these in particle sizes of less than 60µm;
 - 2. Boron (CAS 7440-42-8) or boron carbide (CAS 12069-32-8) fuels of 85% purity or higher and particle sizes of less than 60µm;

Note: ML8.c.5.b.2. does not control boron and boron carbide enriched with boron-10 (20% or more of total boron-10 content).

Note: "Explosives" and fuels containing the metals or alloys specified in ML8.c.5. are controlled whether or not the metals or alloys are encapsulated in aluminium, magnesium, zirconium, or beryllium.
6. Military materiel containing thickeners for hydrocarbon fuels specifically formulated for use in flame throwers or incendiary munitions, such as metal stearates or palmates (eg, octal (CAS 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 (CAS 7429-90-5) with a particle size of 60µm 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;
- d. Oxidisers, as follows, and 'mixtures' thereof:
- 1. ADN (ammonium dinitramide or SR 12) (CAS 140456-78-6);
 - 2. AP (ammonium perchlorate) (CAS 7790-98-9);

3. Compounds composed of fluorine and any of the following:
 - a. Other halogens;
 - b. Oxygen; or
 - c. Nitrogen;

Note 1: ML8.d.3. does not control chlorine trifluoride.

Note 2: ML8.d.3. does not control nitrogen trifluoride in its gaseous state.

N.B.: See also IC of Annex 1 to “the dual-use Regulation”.
 4. DNAD (1,3-dinitro-1,3-diazetidene) (CAS 78246-06-7);
 5. HAN (hydroxylammonium nitrate) (CAS 13465-08-2);
 6. HAP (hydroxylammonium perchlorate) (CAS 15588-62-2);
 7. HNF (hydrazinium nitroformate) (CAS 20773-28-8);
 8. Hydrazine nitrate (CAS 37836-27-4);
 9. Hydrazine perchlorate (CAS 27978-54-7);
 10. Liquid oxidisers comprised of or containing inhibited red fuming nitric acid (IRFNA) (CAS 8007-58-7);
- e. Binders, plasticizers, monomers and polymers as follows:
1. AMMO (azidomethylmethyloxetane and its polymers) (CAS 90683-29-7);
 2. BAMO (bisazidomethyloxetane and its polymers) (CAS 17607-20-4);
 3. BDNPA (bis (2,2-dinitropropyl)acetal) (CAS 5108-69-0);
 4. BDNPF (bis (2,2-dinitropropyl)formal) (CAS 5917-61-3);
 5. BTTN (butanetrioltrinitrate) (CAS 6659-60-5);
 6. Energetic monomers, plasticisers and polymers containing nitro, azido, nitrate, nitraza or difluoroamino groups specially formulated for military use;
 7. FAMAO (3-difluoroaminomethyl-3-azidomethyl oxetane) and its polymers;
 8. FEFO (bis-(2-fluoro-2,2-dinitroethyl) formal) (CAS 17003-79-1);
 9. FPF-1 (poly-2,2,3,3,4,4-hexafluoropentane-1,5-diol formal) (CAS 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) (CAS 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

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- 2.4, a hydroxyl value of less than 0.77 meq/g, and a viscosity at 30°C of less than 47 poise (CAS 69102-90-5);
13. Low (less than 10,000) molecular weight, alcohol functionalised, poly(epichlorohydrin); poly(epichlorohydrindiol) and triol;
 14. NENAs (nitrateethylnitramine compounds) (CAS 17096-47-8, 85068-73-1, 82486-83-7, 82486-82-6 and 85954-06-9);
 15. PGN (poly-GLYN, polyglycidynitrate or poly(nitratomethyl oxirane) (CAS 27814-48-8);
 16. Poly-NIMMO (poly nitratomethylmethyloxetane) or poly-NMMO (poly[3-Nitratomethyl-3-methyloxetane]) (CAS 84051-81-0);
 17. Polynitroorthocarbonates;
 18. TVOPA (1,2,3-tris[1,2-bis(difluoroamino)ethoxy] propane or tris vinoxyl propane adduct) (CAS 53159-39-0);
- f. Additives as follows:
1. Basic copper salicylate (CAS 62320-94-9);
 2. BHEGA (bis-(2-hydroxyethyl) glycolamide) (CAS 17409-41-5);
 3. BNO (butadienenitrileoxide) (CAS 9003-18-3);
 4. Ferrocene derivatives as follows:
 - a. Butacene (CAS 125856-62-4);
 - b. Catocene (2,2-bis-ethylferrocenyl propane) (CAS 37206-42-1);
 - c. Ferrocene carboxylic acids;
 - d. n-butyl-ferrocene (CAS 31904-29-7);
 - e. Other adducted polymer ferrocene derivatives;
 5. Lead beta-resorcylate (CAS 20936-32-7);
 6. Lead citrate (CAS 14450-60-3);
 7. Lead-copper chelates of beta-resorcylate or salicylates (CAS 68411-07-4);
 8. Lead maleate (CAS 19136-34-6);
 9. Lead salicylate (CAS 15748-73-9);
 10. Lead stannate (CAS 12036-31-6);
 11. MAPO (tris-1-(2-methyl)aziridinyl phosphine oxide) (CAS 57-39-6), and 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) (CAS 85068-72-0);
 13. N-methyl-p-nitroaniline (CAS 100-15-2);
 14. 3-Nitrazo-1,5-pentane diisocyanate (CAS 7406-61-9);

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15. Organo-metallic coupling agents as follows:
 - a. Neopentyl[diallyl]oxy, tri[diethyl]phosphato-titanate (CAS 103850-22-2); also known as titanium IV, 2,2-[bis 2-propenolatomethyl, butanolato, tris (diethyl) phosphato] (CAS 110438-25-0); or LICA 12 (CAS 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 butyleneimine trimesamide), isocyanuric or trimethyladipic backbone structures and 2-methyl or 2-ethyl substitutions on the aziridine ring;
 18. Propyleneimine (2-methylaziridine) (CAS 75-55-8);
 19. Superfine iron oxide (Fe₂O₃) with a specific surface area more than 250 m²/g and an average particle size of 3.0 nm or less;
 20. TEPAN (tetraethylenepentaamineacrylonitrile) (CAS 68412-45-3); cyanoethylated polyamines and their salts;
 21. TEPANOL (tetraethylenepentaamineacrylonitrileglycidol) (CAS 68412-46-4); cyanoethylated polyamines adducted with glycidol and their salts;
 22. TPB (triphenyl bismuth) (CAS 603-33-8);
- g. Precursors as follows:
1. BCMO (bischloromethyloxetane) (CAS 142173-26-0);
 2. Dinitroazetidide-t-butyl salt (CAS 125735-38-8);
 3. HBIW (hexabenzylhexaazaisowurtzitane) (CAS 124782-15-6);
 4. TAIW (tetraacetyldibenzylhexaazaisowurtzitane);
 5. TAT (1,3,5,7-tetraacetyl-1,3,5,7-tetraaza cyclo-octane) (CAS 41378-98-7);
 6. 1,4,5,8-tetraazadecalin (CAS 5409-42-7);
 7. 1,3,5-trichlorobenzene (CAS 108-70-3);
 8. 1,2,4-trihydroxybutane (1,2,4-butanetriol) (CAS 3068-00-6);

Note: ML8 does not control charges and devices.

N.B.: Charges and devices are controlled in ML4.

ML9 “Vessels”, special naval equipment and accessories, as follows, and components therefor, specially designed or modified for military use:

Status: This is the original version (as it was originally made).

N.B.: Electronic guidance and navigation equipment is controlled in ML11.a.

- a. Combatant “vessels” and “vessels” (surface or underwater) specially designed or modified for offensive or defensive action, whether or not converted to non-military use, regardless of current state of repair or operating conditions, and whether or not they contain weapon delivery systems or armour;
- b. Submarine and torpedo nets;
- c. Hull penetrators and connectors specially designed for military use that enable interaction with equipment external to a “vessel”.

ML10 “Aircraft”, “lighter-than-air vehicles”, unmanned aerial vehicles, aero-engines, “aircraft” equipment and related “goods”, as follows, specially designed or modified for military use and specially designed components therefor:

N.B.: Electronic guidance and navigation equipment is controlled in ML11.a.

- a. Combat “aircraft”;
- b. Other “aircraft” and “lighter-than-air vehicles” (eg, military reconnaissance, assault, military training, transporting and airdropping troops or military equipment, logistics support);
- c. Unmanned aerial vehicles (UAV) (eg, remotely piloted air vehicles (RPVs), autonomous programmable vehicles (APV) and “lighter-than-air vehicles”), and their launchers, ground support equipment and related equipment for command and control;
- d. Aero-engines;
- e. Airborne equipment (eg, airborne refuelling equipment), specially designed for “use” with “aircraft” specified in ML10.a. or ML10.b. or aero-engines specified in ML10.d.;
- f. Pressure refuellers, pressure refuelling equipment, equipment specially designed to facilitate operations in confined areas and ‘ground equipment’, specially designed or modified for “use” with “aircraft” specified in ML10.a. or ML10.b., or aero-engines specified in ML10.d.;

Technical note:

‘Ground equipment’ means ground-based equipment for the operation, handling, maintenance, checking, repair, overhaul and refurbishment of “aircraft” or aero-engines.

- g. Military aircrew protective headgear and masks, pressurised breathing equipment and partial pressure suits for use in “aircraft”, and anti-g suits, liquid oxygen converters used for “aircraft” or missiles, and catapults and cartridge actuated devices for emergency escape of personnel from “aircraft”;
- h. Parachutes and related equipment used for combat personnel, cargo dropping or “aircraft” deceleration, as follows:
 - 1. Parachutes for:
 - a. Pin point dropping of military personnel;

- b. Dropping of paratroopers;
- 2. Cargo parachutes;
- 3. Paragliders, drag parachutes, drogue parachutes for stabilisation and attitude control of dropping bodies;
- 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;
- i. Automatic piloting systems for parachuted loads and equipment for controlled opening of parachutes at any pre-determined height.

ML11 Electronic equipment, not specified elsewhere in this Part of this Schedule, as follows, and specially designed components therefor:

- a. Electronic equipment specially designed or modified for military use;
- b. Global navigation satellite systems (GNSS) jamming equipment.

Note: *ML11.a. controls all electronic guidance and navigation equipment.*

ML12 High velocity kinetic energy weapon (KEW) systems and related equipment, as follows, and specially designed components therefor:

- a. Kinetic energy weapon systems specially designed for destruction or effecting mission abort of a target;
N.B.: *For weapon systems using sub-calibre ammunition or employing solely chemical propulsion, and ammunition therefor, see ML1 to ML4.*
- b. Specially designed test and evaluation facilities and test models (eg, diagnostic instrumentation and targets), or dynamic testing of kinetic energy projectiles and systems.

ML13 Armoured or protective “goods” and constructions, as follows, and specially designed components therefor:

- a. Armoured plate, having any of the following characteristics:
 - 1. Manufactured to comply with a military standard or specification;
or
 - 2. Suitable for military use;
- b. Constructions of metallic or non-metallic materials or combinations thereof specially designed to provide ballistic protection for military systems;

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- c. Helmets manufactured according to military standards or specifications, or comparable national standards;

Note: ML13.c. does not control;

- a. *Conventional steel helmets, neither modified nor designed to accept, nor equipped with, any type of accessory device;*
- b. *Helmets manufactured before 1945;*
- c. *Individual helmets not specially designed for military use when accompanying their users.*

N.B. 1: Military aircrew protective headgear is controlled in ML10.g.

N.B. 2: Military high altitude parachutists' protective headgear is controlled in ML10.h.8.

- d. Body armour and ballistic protective garments manufactured according to military standards or specifications, or equivalent.

Note: ML13.d. does not control individual suits of body armour or ballistic protective garments for personal protection and accessories therefor when accompanying their users.

N.B.: See also 1A of Annex I to "the dual-use Regulation".

ML14 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 ML1 or ML2, and specially designed components and accessories therefor.

ML15 Imaging or countermeasure equipment, as follows, specially designed for military use, and specially designed components and accessories therefor:

- a. Recorders and image processing equipment;
- b. Cameras, photographic equipment and film processing equipment;
- c. Image intensifier equipment;
- d. Infrared or thermal imaging equipment;
- e. Imaging radar sensor equipment;
- f. Countermeasure or counter-countermeasure equipment for the equipment specified in ML15.a. to ML15.e.

Note: ML15 does not control "first generation image intensifier tubes" or equipment specially designed so that only "first generation image intensifier tubes" are or can be incorporated in it.

N.B.1: For weapons sights incorporating "first generation image intensifier tubes" see ML1, ML2 and ML5.

N.B.2: See also 6A of Annex I to "the dual-use Regulation".

ML16 Forgings, castings and other unfinished "goods", the use of which in controlled "goods" is identifiable by material composition, geometry or function, and which are specially

designed for any of the “goods” specified in ML1 to ML4, ML6, ML9, ML10, ML12 or ML19.

ML17 Miscellaneous “goods”, material and ‘libraries’, as follows, and specially designed components therefor:

- a. Self-contained diving and underwater swimming apparatus as follows:
 1. Closed or semi-closed circuit (rebreathing) apparatus specially designed for military use (ie, specially designed to be non-magnetic);
 2. Specially designed components for use in the conversion of open-circuit apparatus to military use;
 3. “Goods” designed exclusively for military use with self-contained diving and underwater swimming apparatus;
- b. Construction equipment specially designed for military use;
- c. Fittings, coatings and treatments for signature suppression, specially designed for military use;
- d. Field engineer equipment specially designed for “use” in a combat zone;
- e. “Robots”, “robot” controllers and “robot” “end-effectors”, having any of the following characteristics:
 1. Specially designed for military use;
 2. Incorporating means of protecting hydraulic lines against externally induced punctures caused by ballistic fragments (eg, incorporating self-sealing lines) and designed to use hydraulic fluids with flash points higher than 839 K (566°C); or
 3. Specially designed or rated for operating in an electro-magnetic pulse (EMP) environment;

Technical Note:

Electro-magnetic pulse does not refer to unintentional interference caused by electromagnetic radiation from nearby equipment (eg, machinery, appliances or electronics) or lightning.

- f. ‘Libraries’ (parametric technical databases) specially designed for military use with equipment specified in this Part of this Schedule;

Technical Note:

For the purpose of ML17, the term ‘libraries’ (parametric technical databases) means a collection of technical information of a military nature, reference to which may enhance the performance of military equipment or systems.

- g. Nuclear power generating equipment or propulsion equipment (eg, “nuclear reactors”), specially designed for military use and components therefor, specially designed or modified for military use;

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- h. “Goods” and material, coated, treated or prepared to provide signature suppression, specially designed for military use, other than those controlled elsewhere in this Part of this Schedule;
- i. Simulators specially designed for military “nuclear reactors”;
- j. Mobile repair shops specially designed or modified to service military equipment;
- k. Field generators specially designed or modified for military use;
- l. Containers specially designed or modified for military use;
- m. Ferries, other than those controlled elsewhere in this Part of this Schedule, rafts, bridges and pontoons, specially designed for military use;
- n. Test models specially designed for the “development” of “goods” or “technology” specified in ML4, ML6, ML9 or ML10;
- o. Laser protection equipment (eg, eye and sensor protection) specially designed for military use.

ML18 Production equipment and components, as follows:

- a. Specially designed for modified production equipment for the “production” of “goods” specified in this Part of this Schedule, and specially designed components therefor;
- b. Specially designed environmental test facilities and specially designed equipment therefor, for the certification, qualification or testing of “goods” specified in this Part of this Schedule.

PL5017 Equipment and test models other than those specified in ML11, ML12.b., ML17.n. or ML19.e. specially designed or modified for the “development” or “use” of military “goods” specified in this Part of this Schedule.

ML19 Directed energy weapon (DEW) systems, related or countermeasure equipment and test models, as follows, and specially designed components therefor:

- a. “Laser” systems specially designed for destruction or effecting mission-abort of a target;
- b. Particle beam systems capable of destruction or effecting mission-abort of a target;
- c. High power radio-frequency (RF) systems capable of destruction or effecting mission-abort of a target;
- d. Equipment specially designed for the detection or identification of, or defence against, systems specified in ML19.a. to ML19.c.;
- e. Physical test models for the systems, equipment and components specified in ML19;
- f. Continuous wave or pulsed “laser” systems specially designed to cause permanent blindness to un-enhanced vision (ie, to the naked eye or to the eye with corrective eyesight devices).

ML20 Cryogenic and “superconductive” equipment, as follows, and specially designed components and accessories therefor:

- 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);

- 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.

Note: ML20 does not control 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 component in the generator.

ML21 “Software” as follows:

- a. “Software” specially designed or modified for the “development”, “production” or “use” of equipment, materiel or “software” specified in this Part of this Schedule;

- b. Specific “software”, other than that specified in ML21.a., as follows:

1. “Software” that is both specially designed for military use and specially designed for modelling, simulating or evaluating military weapons systems;
2. “Software” that is both 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” that is both specially designed for military use and specially designed for Command, Communications, Control and Intelligence (C³I) applications or Command, Communications, Control, Computer and Intelligence (C⁴I) applications;

- c. “Software”, not specified in ML21.a. or b., specially designed or modified to enable equipment not specified in this Part of this Schedule to perform the military functions of equipment specified in this Part of this Schedule;

- d. Other “software” specially designed or modified for military use.

N.B.: Source code for “software” is controlled in ML22.

PL5001 Other security and para-military police “goods” as follows:

Status: This is the original version (as it was originally made).

- a. Acoustic devices represented by the manufacturers or suppliers thereof as suitable for riot control purposes, and specially designed components therefor;
- b. Anti-riot and ballistic shields and specially designed components therefor;
- c. Shackles designed for restraining human beings having an overall dimension including chain, when measured from the outer edge of one cuff to the outer edge of the other cuff, of between 240mm and 280mm when locked;
N.B.: See also 1.2 of Annex III to “the torture Regulation” and article 9 of this Order.
- d. Electric-shock belts designed for restraining human being by the administration of electric shocks having a no-load voltage not exceeding 10,000 volts;
N.B.: See also 2.1 of Annex II to “the torture Regulation” and article 9 of this Order.
- e. Water cannon and specially designed components therefor;
- f. Riot control vehicles which have been specially designed or modified to be electrified to repel boarders and components therefor specially designed or modified for that purpose;
- g. Electric-shock dart guns having a no load voltage not exceeding 10,000 volts;
N.B.: See also 2.1 of Annex III to “the torture Regulation” and article 9 of this Order.
- h. Components specially designed or modified for portable devices designed or modified for the purposes of riot control or self-protection by the administration of an electric shock (eg, electric-shock batons, electric-shock shields, stun-guns and electric-shock dart-guns);
- i. Hand-held, spiked batons.

ML22 “Technology” as follows:

- a. “Technology”, other than “technology” specified in ML22.b., which is “required” for the “development”, “production” or “use” of “goods” or “software” specified in this Part of this Schedule;
- 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 “goods” specified in this Part of this Schedule, even if the components of such production installations are not specified;
 - 2. “Technology” “required” for the “development”, “production” or “use” of toxicological agents, related equipment or components specified in ML7.a. to ML7.g.;
 - 3. “Technology” “required” for the “development, “production” or “use” of “biopolymers” or cultures of specific cells specified in ML7.h.;

4. “Technology” “required” exclusively for the incorporation of “biocatalysts”, specified in ML7.i.1, into military carrier substances or military materiel.

N.B. See article 18 of this Order for exceptions from the controls on technology.

PART 2

EXPLOSIVE-RELATED GOODS AND TECHNOLOGY

PL8001 Explosive-related “goods” and “technology” as follows:

- a. Equipment and devices, other than those in Part I of this Schedule or in 1A005, 1A006, 1A007, 3A229 or 3A232 in Annex I to “the dual-use Regulation”, for detection of or “use” with “explosives” or for dealing with or protecting against “improvised explosive devices”, as follows, and specially designed components therefor:
 1. Electronic equipment designed to detect “explosives” or “explosive signatures”;
Note: PL8001.a.1. does not control equipment requiring operator judgment to establish the presence of “explosives” or “explosive signatures”.
 2. Electronic jamming equipment specially designed to prevent the detonation by radio remote control of “improvised explosive devices”;
 3. Equipment and devices specially designed to initiate explosions by electrical or non-electrical means, (eg, firing sets, detonators and igniters);
N.B.: See also 1A007, 3A229 and 3A232 in Annex I to “the dual-use Regulation”.
Note: PL8001.a.3. does not control:
 - a. Equipment and devices specially designed for a specific commercial use consisting of the actuation or operation by explosive means of other equipment or devices the function of which is not the initiation or creation of explosions;
 - b. Pressure controlled equipment specially designed for down-hole oilfield equipment applications and which are incapable of use at atmospheric pressure; and
 - c. Detonating cord.
 4. Equipment and devices, including, but not limited to: shields and helmets, specially designed for the disposal of “improvised explosive devices”;

Status: This is the original version (as it was originally made).

N.B.: *N.B.:* See also IA005 and IA006 in Annex I to “the Regulation”.

Note: *PL8001.a.4. does not control bomb blankets, mechanical handling equipment for manoeuvring or exposing “improvised explosive devices”, containers designed for holding “improvised explosive devices” or objects suspected of being such devices or other equipment specially designed to temporarily protect against “improvised explosive devices” or objects suspected of being such devices.*

- b. Linear cutting explosive charges;
- c. “Technology” “required” for the “use” of “goods” in this Part of this Schedule.”

N.B. See article 18 of this Order for exceptions from the controls on technology.

SCHEDULE 3

Articles 2, 4 and 5

UK CONTROLLED DUAL-USE GOODS, SOFTWARE AND TECHNOLOGY

Note: In this Schedule, defined terms are printed in quotation marks.

Definitions

In this Schedule:

“development” means all stages prior to “production” (eg, design, design research, design analyses, design concepts, assembly and testing of prototypes, pilot production schemes, design data, process of transforming design data into “goods” or “software”, configuration design, integration design, layouts);

“energetic materials” means substances or mixtures that react chemically to release energy required for their intended application; “explosives”, “pyrotechnics” and “propellants” are sub-classes of energetic materials;

“explosives” means solid, liquid or gaseous substances or mixtures of substances which, in their application as primary, booster, or main charges in warheads, demolition and other applications, are required to detonate;

“lighter-than-air vehicles” means balloons and airships that rely on hot air or on lighter-than-air gases such as helium or hydrogen for their lift;

“previously separated” in relation to a controlled isotope in any form, means after the application of any process intended to increase the concentration of the controlled isotope;

“production” means all production stages (eg, product engineering, manufacture, integration, assembly (mounting), inspection, testing, quality assurance);

“propellants” means substances or mixtures that react chemically to produce large volumes of hot gases at controlled rates to perform mechanical work;

“pyrotechnic(s)” means mixtures of solid or liquid fuels and oxidisers which, when ignited, undergo an energetic chemical reaction at a controlled rate intended to produce specific time delays, or quantities of heat, noise, smoke, visible light or infrared radiation; pyrophorics are a subclass of pyrotechnics, which contain no oxidisers but ignite spontaneously on contact with air;

“required” as applied to “technology”, refers to only that portion of “technology” which is peculiarly responsible for achieving or exceeding the controlled performance levels, characteristics or functions. Such “required” “technology” may be shared by different “goods” and the intended use of “technology” is irrelevant to whether it is “required”;

“technology” means specific ‘information’ necessary for the “development”, “production” or “use” of “goods” or “software”;

Technical Note:

‘Information’ may take forms including, not limited to: blueprints, plans, diagrams, models, formulae, tables, ‘source code’, engineering designs and specifications, manuals and instructions written or recorded on other media or devices (eg, disk, tape, read-only memories);

‘source code’ (or source language) is a convenient expression of one or more processes which may be turned by a programming system into equipment executable form.

“use” means operation, installation (eg, on-site installation), maintenance, checking, repair, overhaul and refurbishing;

“vaccines” are medical products in a pharmaceutical formulation licensed by, or having marketing or clinical trial authorisation from, the regulatory authorities of either the country of manufacture or of use, which is intended to stimulate a protective immunological response in humans or animals in order to prevent disease in those to whom or to which it is administered.

Materials, chemicals, micro-organisms and toxins

PL9002 The export of the following goods is prohibited to any destination:

“Energetic materials”, as follows, and mixtures containing one or more thereof:

- a. Nitrocellulose (containing more than 12.5% nitrogen);
- b. Nitroglycerol;
- c. Pentaerythritol tetranitrate (PETN);
- d. Picryl chloride;
- e. Trinitrophenylmethylnitramine (tetryl);
- f. 2,4,6-Trinitrotoluene (TNT).

Note: PL9002 does not control single, double and triple base “propellants”.

PL9003 The export of the following goods is prohibited to any destination:

“Vaccines” for protection against:

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- a. bacillus anthracis;
- b. botulinum toxin.

PL9004 The export of the following goods is prohibited to any destination:

“Previously separated” americium-241, -242m or -243 in any form.

Note: PL9004 does not control “goods” with an americium content of 10 grams or less.

Telecommunications and related technology

PL9005 The export or “transfer by electronic means” of the following “goods”, “software” or “technology” is prohibited to any destination in Iran:

- a. Tropospheric scatter communication equipment using analogue or digital modulation techniques and specially designed components therefor;
- b. “Technology” for the “development”, “production” or “use” of “goods” specified in PL9005.a.

N.B. See article 18 of this Order for exceptions from the controls on technology.

Vessels and related software and technology

PL9008 The export or “transfer by electronic means” of the following “goods”, “software” or “technology” is prohibited to any destination in Iran:

- a. “Vessels”, inflatable craft and ‘submersible vehicles’, and related equipment and components, as follows, other than those specified in Part 1 of Schedule 2 to this Order or Annex I to “the dual-use Regulation”:
 - 1. Marine “vessels” (surface or underwater), inflatable craft and ‘submersible vehicles’;
 - 2. Equipment and components, designed for “vessels”, inflatable craft and ‘submersible vehicles’, as follows:
 - a. Hull and keel structures and components;
 - b. Propulsive engines designed or modified for marine use and specially designed components therefor;
 - c. Marine radar, sonar and speed log equipment, and specially designed components therefor;
- b. “Software” designed for the “development”, “production” or “use” of “goods” specified in PL9008.a.
- c. “Technology” for the “development”, “production”, or “use” of “goods” or “software” specified in PL9008.a. or PL9008.b.

N.B. See article 18 of this Order for exceptions from the controls on technology.

Technical note:

'Submersible vehicles' include manned, unmanned, tethered or untethered vehicles.

Aircraft and related technology

PL9009 The export or “transfer by electronic means” of the following “goods” or “technology” is prohibited to any destination in Iran:

- a. “Aircraft”, “lighter-than-air vehicles” and steerable parachutes, and related equipment and components, as follows, other than those specified in Part 1 of Schedule 2 to this Order or Annex I to “the dual-use Regulation”:
 1. “Aircraft”, “lighter-than-air vehicles” and steerable parachutes;
 2. Equipment and components, designed for “aircraft” and “lighter-than-air vehicles”, as follows:
 - a. Airframe structures and components;
 - b. Aero-engines and specially designed components therefor;
 - c. Avionics and navigation equipment and specially designed components therefor;
 - d. Landing gear and specially designed components therefor, and aircraft tyres;
 - e. Propellers and rotors;
 - f. Transmissions and gearboxes, and specially designed components therefor;
 - g. Unmanned aerial vehicle (UAV) recovery systems;
- b. Not used;
- c. Technology for the “development”, “production” or “use” of “goods” specified in PL9009.a.

N.B. See article 18 of this Order for exceptions from the controls on technology.

Note: PL9009.c. does not control technical data, drawings or documentation for maintenance activities directly associated with calibration, removal or replacement of damaged or unserviceable “goods” that are necessary for the continuing airworthiness and safe operation of civil “aircraft”

SCHEDULE 4

Articles 2, 13, 14, 16 and 17

COUNTRIES AND DESTINATIONS SUBJECT
TO STRICTER EXPORT OR TRADE CONTROLS

PART 1

EMBARGOED AND NO EXCEPTION FOR TRANSIT

Democratic People's Republic of Korea

Iran

PART 2

EMBARGOED AND SUBJECT TO TRANSIT
CONTROL FOR MILITARY GOODS

Armenia

Azerbaijan

Burma (Myanmar)

Democratic Republic of the Congo

Ivory Coast (Côte d'Ivoire)

Lebanon

Sudan

Uzbekistan

Zimbabwe

PART 3

SUBJECT TO TRANSIT CONTROL FOR MILITARY GOODS

Afghanistan

Argentina

Burundi

China (People's Republic other than the Special Administrative Regions)

Iraq

Liberia

Macao Special Administrative Region

Rwanda

Sierra Leone

Somalia

Tanzania

Uganda

PART 4

SUBJECT TO TRANSIT CONTROL FOR CATEGORY B GOODS

Albania
Belarus
Benin
Bosnia/Herzegovina
Burkina Faso
Cameroon
Cape Verde
Central African Republic
Chad
Colombia
Congo (Brazzaville)
Dubai
East Timor (Timor-Leste)
Eritrea
Ethiopia
Gambia
Georgia
Ghana
Guinea
Guinea Bissau
Haiti
Hong Kong Special Administrative Region
Jamaica
Kenya
Krygyzstan
Libya
Mali
Mauritania
Moldova
Montenegro
Morocco
Nepal
Niger
Nigeria
Oman
Pakistan
Russia

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Senegal
 Serbia
 Sri Lanka
 Syria
 Taiwan
 Tajikistan
 Togo
 Trinidad & Tobago
 Turkmenistan
 Ukraine
 Venezuela
 Yemen

SCHEDULE 5

Article 30

INFORMATION SECURITY ITEMS

1. In this Schedule—

“business or academic collaborator”, in relation to an exporter, means a person who is either—

- (a) working by way of business in research and development of cryptography or cryptographic goods or software; or
- (b) is teaching, or undertaking research as a member of or at a university or institution of higher education into, cryptography or cryptographic goods or software,

and with whom the exporter has previously entered into a collaboration agreement;

“collaboration agreement” means an agreement for the carrying out of work comprising or related to research into the development of cryptography or cryptographic goods or software;

“development” has the same meaning as in Schedule 2;

“intra-group or collaborative end-use” means—

- (a) use by the exporter, or a subsidiary undertaking or parent undertaking of the exporter, in that person’s own commercial cryptographic goods; or
- (b) use by a business or academic collaborator of the exporter in that person’s own commercial cryptographic goods in accordance with the terms of a collaboration agreement with the exporter;

“parent undertaking” and “subsidiary undertaking” have the same meanings as in the Companies Act 2006⁽²⁾ (see section 1162 of, and Schedule 7 to, that Act);

“production”, “technology” and “use” have the same meanings as in Schedule 2.

2. The information security items specified in this Schedule are the following software and technology—

- (a) cryptography development software specified in entry 5D002 of Annex I to the dual-use Regulation, other than software having the characteristics, or performing or simulating the functions, of equipment designed or modified to perform cryptanalytic functions;

(2) 2006 c. 46.

- (b) cryptography development technology specified in entry 5E002 of Annex I to the dual-use Regulation, other than technology for the development, production or use of—
- (i) equipment designed or modified to perform cryptanalytic functions; or
 - (ii) software having the characteristics, or performing or simulating the functions, of equipment designed or modified to perform cryptanalytic functions

but only to the extent that such software or technology is for an intra-group or collaborative end-use.

3. The information specified in this Schedule is—

- (a) a general description of the goods, software or technology, such as might be contained in a product brochure;
- (b) descriptions of all relevant encryption algorithms and key management schemes, and descriptions of how they are used by the goods, software or technology (eg, which algorithm is used for authentication, which for confidentiality and which for key exchange); and details (eg, source code) of how they are implemented (eg, how keys are generated and distributed, how key length is governed and how the algorithm and keys are called by the software);
- (c) details of any measures taken to preclude user modification of the encryption algorithm, key management scheme or key length;
- (d) details of pre- or post-processing of data, such as compression of plain text or packetisation of encrypted data;
- (e) details of programming interfaces that can be used to gain access to the cryptographic functionality of the goods, software or technology; and
- (f) a list of any protocols to which the goods, software or technology adhere.

SCHEDULE 6

Article 45

REVOCATIONS

<i>(1)</i>	<i>(2)</i>	<i>(3)</i>
Order or Regulations revoked	References	Extent of revocation
The Export of Goods, Transfer of Technology and Provision of Technical Assistance (Control) Order 2003	S.I. 2003/2764	The whole Order
The Trade in Goods (Control) Order 2003	S.I. 2003/2765	The whole Order
The Trade in Controlled Goods (Embargoed Destinations) Order 2004	S.I. 2004/318	The whole Order
The Trade in Controlled Goods (Embargoed Destinations) (Amendment) Order 2004	S.I. 2004/1049	The whole Order
The Export of Goods, Transfer of Technology and Provision of Technical Assistance (Control) (Amendment) Order 2004	S.I. 2004/1050	The whole Order
The Export of Goods, Transfer of Technology and Provision of Technical Assistance (Control) (Amendment No. 2) Order 2004	S.I. 2004/2561	The whole Order

Status: This is the original version (as it was originally made).

<i>(1)</i>	<i>(2)</i>	<i>(3)</i>
Order or Regulations revoked	References	Extent of revocation
The Export Control (Libya Embargo) Order 2004	S.I. 2004/2741	The whole Order
The Export Control (Iraq and Ivory Coast) Order 2005	S.I. 2005/232	In article 1, the definition of “the 2003 Order” Articles 6 and 7
The Trade in Goods (Control) (Amendment) Order 2005	S.I. 2005/443	The whole Order
The Trade in Controlled Goods (Embargoed Destinations) (Amendment) Order 2005	S.I. 2005/445	The whole Order
The Export of Goods, Transfer of Technology and Provision of Technical Assistance (Control) (Amendment) Order 2005	S.I. 2005/468	The whole Order
The Export Control (Uzbekistan) Order 2005	S.I. 2005/3257	In article 1, the definition of “the 2003 Order” Articles 7 and 8
The Export Control (Bosnia and Herzegovina) Order 2006	S.I. 2006/300	The whole Order
The Export Control Order 2006	S.I. 2006/1331	The whole Order
The Export Control (Security and Para-military Goods) Order 2006	S.I. 2006/1696	The whole Order
The Technical Assistance Control Regulations 2006	S.I. 2006/1719	The whole Regulations
The Export Control (Amendment) Order 2006	S.I. 2006/2271	The whole Order
The Export Control (Lebanon) Order 2006	S.I. 2006/2683	The whole Order
The Export Control (North Korea) Order 2007	S.I. 2007/1334	In article 1, the definitions of “the 2003 Order” and “the 2004 Order” Articles 2 and 3
The Export and Trade Control Order 2007	S.I. 2007/1863	The whole Order
The Export Control (Security and Para-military Goods) Order 2008	S.I. 2008/639	The whole Order
The Export of Goods, Transfer of Technology and Provision of Technical Assistance (Control) (Amendment) Order 2008	S.I. 2008/1281	The whole Order
The Trade in Goods (Categories of Controlled Goods) Order 2008	S.I. 2008/1805	The whole Order

<i>(1)</i>	<i>(2)</i>	<i>(3)</i>
Order or Regulations revoked	References	Extent of revocation
The Export of Goods, Transfer of Technology and Provision of Technical Assistance (Control) (Amendment) (No. 2) Order 2008	S.I. 2008/3161	The whole Order