

STATUTORY INSTRUMENTS

S.I. No. 305 of 2009

CONTROL OF EXPORTS (GOODS AND TECHNOLOGY) ORDER 2009

(Prn. A9/1089)

CONTROL OF EXPORTS (GOODS AND TECHNOLOGY) ORDER 2009

I, MARY COUGHLAN, Minister for Enterprise, Trade and Employment, in exercise of the powers conferred on me by section 4 of the Control of Exports Act 2008 (No. 1 of 2008), hereby order as follows:

1. (1) This Order may be cited as the Control of Exports (Goods and Technology) Order 2009.

(2) This Order comes into operation on 1 September 2009.

2. (1) In this Order—

"firearm certificate" means a firearm certificate granted in accordance with the Firearms Acts 1925 to 2007 that is in force;

"International United Nations Force" has the meaning assigned to it by the Defence (Amendment) (No. 2) Act 1960 (No. 44 of 1960), or, as appropriate, the Defence (Amendment) Act 2006 (No. 20 of 2006);

"Permanent Defence Force" has the meaning assigned to it by the Defence Act 1954 (No. 18 of 1954);

"third country" means a country, territory, dependency or other place that is not a Member State.

(2) A reference in the Schedule to a Chemical Abstracts Service Registry Number, or the abbreviation "CAS", in relation to a chemical, is a reference to the numeric designation assigned to that chemical by the American Chemical Society's Chemical Abstracts Service.

3. Subject to Article 4, the exportation of any goods or technology, or both, specified in the Schedule is prohibited save under, and in accordance with, a licence.

- 4. This Order shall not apply to the exportation—
 - (a) of any goods or technology, or both, specified in the Schedule by the Permanent Defence Force or the Garda Síochána—
 - (i) for use by an International United Nations Force in the course of its duties as such,

Notice of the making of this Statutory Instrument was published in "Iris Oifigiúil" of 11th August, 2009.

- (ii) for the purposes of such goods or technology, or both, being repaired, overhauled, refitted, modified, tested or maintained, and returned to the State,
- (iii) for the purposes of such goods or technology, or both, being used at international military competitions, or
- (iv) for the purposes of the testing of munitions,
- (b) to a Member State of—
 - (i) pistols, revolvers, rifles, carbines, shotguns and other smoothbore weapons and crossbows and component parts thereof,
 - (ii) silencers, telescopic sights and component parts thereof, or
 - (iii) ammunition for firearms specified in subparagraph (i),
- (c) of privately owned pistols, revolvers, rifles, carbines, shotguns and other smoothbore weapons, silencers, telescopic sights, crossbows and component parts thereof, legally imported for a period of not more than 6 months by persons resident in a third country who hold firearm certificates therefor, and ammunition therefor, not exceeding the amount shown on the document authorising their importation,

or

- (d) of pistols, revolvers, rifles, carbines, shotguns and other smoothbore weapons, silencers, telescopic sights, crossbows, component parts thereof and ammunition therefor, which are held by residents in the State holding firearm certificates therefor and which are being exported to a third country for use by their owners during a visit of not more than 6 months.
- 5. The Control of Exports Order 2005 (S.I. No. 884 of 2005) is revoked.

Article 3.

SCHEDULE

Goods and technology which may not be exported without a licence

Note: Chemicals are listed by name and CAS number. The list applies to chemicals of the same structural formula (including hydrates) regardless of name or CAS number. CAS numbers are shown to assist in identifying a particular chemical or mixture, 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.

1. Smooth-bore weapons with a calibre of less than 20mm, other arms and automatic weapons with a calibre of 12.7mm (calibre 0.50 inches) or less and accessories, as follows, and specially designed components therefore:

a. Rifles, carbines, revolvers, pistols, machine pistols and machine guns;

Note: Paragraph 1.a. does not apply to the following:

- a. Muskets, rifles and carbines manufactured earlier than 1938;
- b. Reproductions of muskets, rifles and carbines the originals of which were manufactured earlier than 1890;
- c. Revolvers, pistols and machine guns manufactured earlier than 1890, and their reproductions;
- b. Smooth-bore weapons, as follows:
 - 1. Smooth-bore weapons specially designed for military use;
 - 2. Other smooth-bore weapons as follows:
 - a. Fully automatic type weapons;
 - b. Semi-automatic or pump-action type weapons;
 - c. Weapons using caseless ammunitions;
 - d. Silencers, special gun-mountings, clips, weapons sights and flash suppressors for arms specified by Paragraph 1.a., Paragraph 1.b. or Paragraph 1.c.
 - Note 1: Paragraph 1 does not apply to smooth-bore weapons used for hunting or sporting purposes. These weapons must not be specially designed for military use or of the fully automatic firing type.

- Note 2: Paragraph 1 does not apply to firearms specially designed for dummy ammunition and which are incapable of firing any ammunition specified by Paragraph 3.
- *Note 3:* Paragraph 1 does not apply to weapons using non-centre fire cased ammunition and which are not of the fully automatic firing type.
- Note 4. Paragraph 1.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.

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

a. Guns, howitzers, cannon, mortars, anti-tank weapons, projectile launchers, military flame throwers, rifles, recoilless rifles, smooth-bore weapons and signature reduction devices therefore;

Note 1: Paragraph 2.a. includes injectors, metering devices, storage tanks and other specially designed components for use with liquid propelling charges for any of the equipment specified by Paragraph 2.a.

Note 2: Paragraph 2.a. does not apply to weapons as follows:

- 1. Muskets, rifles and carbines manufactured earlier than 1938;
- 2. Reproductions of muskets, rifles and carbines the originals of which were manufactured earlier than 1890.
- Note 3: Paragraph 2.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 500m.
- b. Military smoke, gas and pyrotechnic projectors or generators;

Note: Paragraph 2.b. does not apply to signal pistols.

c. Weapons sights.

3. Ammunition and fuse setting devices, as follows, and specially designed components therefor:

- a. Ammunition for weapons specified by Paragraph 1, Paragraph 2 or Paragraph 12;
- b. Fuse setting devices specially designed for ammunition specified by Paragraph 3.a.

Note 1: Specially designed components specified by Paragraph 3 include:

- a. Metal or plastic fabrications such as primer anvils, bullet cups, cartridge links, rotating bands and munitions metal parts;
- b. Safing and arming devices, fuses, sensors and initiation devices;
- c. Power supplies with high one-time operational output;
- d. Combustible cases for charges;
- e. Submunitions including bomblets, minelets and terminally guided projectiles.
- *Note 2: Paragraph 3.a. does not apply to ammunition crimped without a projectile (blank star) and dummy ammunition with a pierced powder chamber.*
- *Note 3: Paragraph 3.a. does not apply to cartridges specially designed for any of the following purposes:*
 - a. Signalling;
 - b. Bird scaring; or
 - c. Lighting of gas flares at oil wells.

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

N.B.1: For guidance and navigation equipment, see Paragraph 11.

N.B.2: T>: For Aircraft Missile Protection Systems (AMPS), see Paragraph 4.c.

a. Bombs, torpedoes, grenades, smoke canisters, rockets, mines, missiles, depth charges, demolition-charges, demolition-devices, demolition-kits, 'pyro-technic' devices, cartridges and simulators (i.e. equipment simulating the characteristics of any of these items), specially designed for military use;

Note: Paragraph 4.a. includes:

- a. Smoke grenades, fire bombs, incendiary bombs and explosive devices;
- b. *Missile rocket nozzles and re-entry vehicle nosetips.*
- b. Equipment having all of the following:
 - 1. Specially designed for military use; and

- 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:
 - a. Items specified by Paragraph 4.a.; or
 - b. Improvised Explosive Devices (IEDs).
- Note 1: Paragraph 4.b. includes:
 - a. Mobile gas liquefying equipment capable of producing 1,000 kg or more per day of gas in liquid form;
 - b. Buoyant electric conducting cable suitable for sweeping magnetic mines.
- *Note 2:* Paragraph 4.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.
- c. Aircraft Missile Protection Systems (AMPS).

Note: Paragraph 4.c. does not apply to AMPS having all of the following:

- a. Any of the following missile warning sensors:
 - 1. Passive sensors having peak response between 100-400nm; or
 - 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; and
- d. Installed on 'civil aircraft' and having all of the following:
 - 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:
 - a. A civil Type Certificate; or
 - b. An equivalent document recognised by the International Civil Aviation Organisation (ICAO);
 - 2. The AMPS employs protection to prevent unauthorised access to 'software'; and

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- 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.

5. 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:

- 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 items specified by Paragraph 5.a. or Paragraph 5.b.;
- d. Field test or alignment equipment, specially designed for items specified by Paragraph 5.a. or Paragraph 5.b.

6. Ground vehicles and components, as follows:

- N.B.: For guidance and navigation equipment, see Paragraph 11.
 - a. Ground vehicles and components therefor, specially designed or modified for military use;

Technical Note

For the purposes of Paragraph 6.a. the term ground vehicles includes trailers.

- 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.
- N.B.: See also Paragraph 13.a
 - Note 1: Paragraph 6.a. includes:
 - 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 by Paragraph 4;
 - b. Armoured vehicles;
 - c. Amphibious and deep water fording vehicles;

- d. *Recovery vehicles and vehicles for towing or transporting ammunition or weapon systems and associated load handling equipment.*
- Note 2: Modification of a ground vehicle for military use specified by Paragraph 6.a. entails a structural, electrical or mechanical change involving one or more components that are specially designed for military use.

Such components include:

- a. Pneumatic tyre casings of a kind specially designed to be bullet-proof or to run when deflated;
- b. *Tyre inflation pressure control systems, operated from inside a moving vehicle;*
- c. Armoured protection of vital parts, (e.g. fuel tanks or vehicle cabs);
- d. Special reinforcements or mountings for weapons;
- e. Black-out lighting.
- *Note 3: Paragraph 6 does not apply to civil automobiles, or trucks designed or modified for transporting money or valuables, having armoured or ballistic protection.*

7. Chemical or biological toxic agents, 'riot control agents', radioactive materials, related equipment, components and materials, as follows:

- 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:
 - 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, Ndialkyl (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-2dialkyl (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-chlorovinyldichloroarsine (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);
- c. CW binary precursors and key precursors, as follows:
 - 1. Alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) Phosphonyl Difluorides, such as:

DF: Methyl Phosphonyldifluoride (CAS 676-99-3);

2. O-Alkyl (H or equal to or less than C¹⁰, including cycloalkyl) O-2dialkyl (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 (CAS 57856-11-8);

- 3. Chlorosarin: O-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, Phenylacyl chloride (ωchloroacetophenone) (CN) (CAS 532-27-4);
 - 4. Dibenz-(b, f)-1,4-oxazephine, (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:* Paragraph 7.d. does not apply to 'riot control agents' individually packaged for personal self-defence purposes.

- *Note 2:* Paragraph 7.d. does not apply to 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 by Paragraph 7.a., Paragraph 7.b. or Paragraph 7.d.; or
 - 2. CW agents made up of precursors specified by Paragraph 7.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 by Paragraph 7.a., Paragraph 7.b. or Paragraph 7.d., and specially designed components therefor;
 - 2. Equipment designed or modified for decontamination of objects contaminated with materials specified by Paragraph 7.a. or Paragraph 7.b. and specially designed components therefor;
 - 3. Chemical mixtures specially developed or formulated for the decontamination of objects contaminated with materials specified by Paragraph 7.a. or Paragraph 7.b.;

Note: Paragraph 7.f.1. includes:

- a. Air conditioning units specially designed or modified for nuclear, biological or chemical filtration;
- b. Protective clothing.
- N.B.: For civil gas masks, protective and decontamination equipment, see also entry 1A004 on the EU Dual-Use List.
- g. Equipment specially designed or modified for military use designed or modified for the detection or identification of materials specified by Paragraph 7.a., Paragraph 7.b. or Paragraph 7.d., and specially designed components therefor;
 - *Note: Paragraph 7.g. does not apply to personal radiation monitoring dosimeters.*

N.B.: See also entry 1A004 on the EU Dual-Use List.

h. 'Biopolymers' specially designed or processed for the detection or identification of CW agents specified by Paragraph 7.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:
 - 'Biocatalysts' specially designed for the decontamination or degradation of CW agents specified by Paragraph 7.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 by Paragraph 7.i.1.
- Note 1: Paragraph 7.b. and Paragraph 7.d. do not apply to the following:
 - a. Cyanogen chloride (CAS 506-77-4). See 1C450.a.5. on the EU Dual-Use List;
 - b. Hydrocyanic acid (CAS 74-90-8);
 - c. Chlorine (CAS 7782-50-5);
 - d. *Carbonyl chloride (phosgene) (CAS 75-44-5). See 1C450.a.4. on the EU Dual-Use List;*
 - e. Diphosgene (trichloromethyl-chloroformate) (CAS 503-38-8);
 - f. Not used since 2004;
 - g. Xylyl bromide, ortho: (CAS 89-92-9), meta: (CAS 620-13-3), para: (CAS 104-81-4);
 - h. Benzyl bromide (CAS 100-39-0);
 - i. Benzyl iodide (CAS 620-05-3);
 - j. Bromo acetone (CAS 598-31-2);
 - k. Cyanogen bromide (CAS 506-68-3);
 - 1. 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). See 1C450.a.7. on the EU Dual-Use List.
- *Note 2: The cultures of cells and biological systems specified by Paragraph 7.h. and Paragraph 7.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.

8. 'Energetic materials', and related substances, as follows:

N.B.: See also 1C011 on the EU Dual-Use List.

Technical Notes

- 1. For the purposes of Paragraph 8, mixture refers to a composition of two or more substances with at least one substance being listed in the Paragraph 8 sub-items.
- 2. Any substance listed in the Paragraph 8 sub-items is subject to this list, 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 oxidizer.)
 - 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);
 - 3. CL-14 (diamino dinitrobenzofuroxan or 5,7-diamino-4,6-dinitrobenzofurazane-1-oxide) (CAS 117907-74-1);
 - CL-20 (HNIW or Hexanitrohexaazaisowurtzitane) (CAS 135285-90-4); chlathrates of CL-20 (see also Paragraph 8.g.3. and g.4. for its 'precursors');
 - 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 (see also Paragraph 8.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-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 20062-22-0);
- 16. Imidazoles as follows:
 - a. BNNII (Octahydro-2,5-bis(nitroimino)imidazo [4,5d]imidazole);
 - b. DNI (2,4-dinitroimidazole) (CAS 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) (CAS 932-64-9);
- 19. Polynitrocubanes with more than four nitro groups;
- 20. PYX (2,6-Bis(picrylamino)-3,5-dinitropyridine) (CAS 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) (CAS 121-82-4);
 - b. Keto-RDX (K-6 or 2,4,6-trinitro-2,4,6-triazacyclohexanone) (CAS 115029-35-1);
- 22. TAGN (triaminoguanidinenitrate) (CAS 4000-16-2);

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 - 23. TATB (triaminotrinitrobenzene) (CAS 3058-38-6) (see also Paragraph 8.g.7 for its 'precursors');
 - 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) (see also Paragraph 8.g.6. for its 'precursors');
 - 28. TNAZ (1,3,3-trinitroazetidine) (CAS 97645-24-4) (see also Paragraph 8.g.2. for its 'precursors');
 - 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 Paragraph 8.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 Paragraph 8.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 five 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;
 - '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 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 by Paragraph 8.a.
- c. 'Pyrotechnics', fuels and related substances, as follows, and mixtures thereof:
 - 1. Aircraft fuels specially formulated for military purposes;
 - 2. Alane (aluminum 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 Paragraph 8.d.8. and d.9. for oxidising hydrazine derivatives):
 - a. Hydrazine (CAS 302-01-2) in concentrations of 70% or more;

- 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 $60 \ \mu m$;
 - 2. Iron powder (CAS 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:
 - 1. Zirconium (CAS 7440-67-7), magnesium (CAS 7439-95-4) or alloys of these in particle sizes of less than 60 μm; or
 - Boron (CAS 7440-42-8) or boron carbide (CAS 12069-32-8) fuels of 85 % purity or higher and particle sizes of less than 60 μm;
- 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 (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 60 μ m 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 to 1.68.
- *Note 1: Aircraft fuels specified by Paragraph 8.c.1. are finished products, not their constituents.*
- *Note 2: Paragraph 8.c.4.a. does not apply to hydrazine mixtures specially formulated for corrosion control.*
- Note 3: Paragraph 8.c.5. applies to explosives and fuels, whether or not the metals or alloys are encapsulated in aluminium, magnesium, zirconium, or beryllium.

- Note 4: Paragraph 8.c.5.b.2. does not apply to boron and boron carbide enriched with boron-10 (20 % or more of total boron-10 content).
- d. Oxidizers 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: Paragraph 8.d.3 does not apply to chlorine trifluoride. See 1C238 on the EU Dual-Use List.
 - *Note 2: Paragraph 8.d.3 does not apply to nitrogen trifluoride in its gaseous state.*
 - 4. DNAD (1,3-dinitro-1,3-diazetidine) (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);

Note: Paragraph 8.d.10 does not apply to non-inhibited fuming nitric acid.

- e. Binders, plasticisers, monomers and polymers, as follows:
 - 1. AMMO (azidomethylmethyloxetane and its polymers) (CAS 90683-29-7) (see also Paragraph 8.g.1. for its 'precursors');
 - 2. BAMO (bisazidomethyloxetane and its polymers) (CAS 17607-20-4) (see also Paragraph 8.g.1. for its 'precursors');
 - 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) (see also Paragraph 8.g.8. for its 'precursors');
- 6. Energetic monomers, plasticisers and polymers, containing nitro, azido, nitrate, nitraza or difluoroamino groups and 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 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 (nitratoethylnitramine compounds) (CAS 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) (CAS 27814-48-8);
- 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 vinoxy 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); 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-Nitraza-1,5-pentane diisocyanate (CAS 7406-61-9);
- 15. Organo-metallic coupling agents as follows:
 - a. Neopentyl[diallyl]oxy, tri[dioctyl]phosphato-titanate (CAS 103850-22-2); also known as titanium IV, 2,2[bis 2-propenolato-methyl, butanolato, tris (dioctyl) phosphato] (CAS 110438-25-0); or LICA 12 (CAS 103850-22-2);
 - b. Titanium IV, [(2-propenolato-1) methyl, n-propanolatomethyl] butanolato-1, tris[dioctyl] pyrophosphate or KR3538;
 - c. Titanium IV, [(2-propenolato-1)methyl, n-propanolatomethyl] butanolato-1, tris(dioctyl)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) (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:
 - N.B.: In Paragraph 8.g. the references are to specified 'Energetic Materials' manufactured from these substances.
 - 1. BCMO (bischloromethyloxetane) (CAS 142173-26-0) (see also Paragraph 8.e.1. and e.2.);
 - 2. Dinitroazetidine-t-butyl salt (CAS 125735-38-8) (see also Paragraph 8.a.28.);
 - 3. HBIW (hexabenzylhexaazaisowurtzitane) (CAS 124782-15-6) (see also Paragraph 8.a.4.);
 - 4. TAIW (tetraacetyldibenzylhexaazaisowurtzitane) (see also Paragraph 8.a.4.);
 - 5. TAT (1,3,5,7 tetraacetyl-1,3,5,7,-tetraaza cyclo-octane) (CAS 41378-98-7) (see also Paragraph 8.a.13.);
 - 6. 1,4,5,8-tetraazadecalin (CAS 5409-42-7) (see also Paragraph 8.a.27.);

7. 1,3,5-trichlorobenzene (CAS 108-70-3) (see also Paragraph 8.a.23.);

8. 1,2,4-trihydroxybutane (1,2,4-butanetriol) (CAS 3068-00-6) (see also Paragraph 8.e.5.).

Note 5: For charges and devices see Paragraph 4.

- *Note 6:* Paragraph 8 does not apply to the following substances unless they are compounded or mixed with the 'energetic material' specified by Paragraph 8.a. or powdered metals specified by Paragraph 8.c.:
 - a. Ammonium picrate;
 - b. Black powder;
 - c. Hexanitrodiphenylamine;
 - d. Difluoroamine;
 - e. Nitrostarch;
 - f. *Potassium nitrate;*

- g. Tetranitronaphthalene;
- h. *Trinitroanisol;*
- i. *Trinitronaphthalene*;
- j. *Trinitroxylene*;
- k. N-pyrrolidinone; 1-methyl-2-pyrrolidinone;
- 1. Dioctylmaleate;
- m. Ethylhexylacrylate;
- n. Triethylaluminium (TEA), trimethylaluminium (TMA), and other pyrophoric metal alkyls and aryls of lithium, sodium, magnesium, zinc or boron;
- o. Nitrocelluose;
- p. Nitroglycerin (or glyceroltrinitrate, trinitroglycerine) (NG);
- q. 2,4,6-trinitrotoluene (TNT);
- r. Ethylenediaminedinitrate (EDDN);
- s. Pentaerythritoltetranitrate (PETN);
- t. Lead azide, normal and basic lead styphnate, and primary explosives or priming compositions containing azides or azide complexes;
- u. Triethyleneglycoldinitrate (TEGDN);
- v. 2,4,6-trinitroresorcinol (styphnic acid);
- w. Diethyldiphenyl urea; dimethyldiphenyl urea; methylethyldiphenyl urea [Centralites];
- x. N, N-diphenylurea (unsymmetrical diphenylurea);
- *y. Methyl-N, N-diphenylurea* (*methyl unsymmetrical diphenylurea*);
- z. *Ethyl-N, N-diphenylurea (ethyl unsymmetrical diphenylurea);*
- aa. 2-Nitrodiphenylamine (2-NDPA);
- bb. 4-Nitrodiphenylamine (4-NDPA);
- cc. 2,2-dinitropropanol;
- dd. Nitroguanidine (see 1C011.d. on the EU Dual-Use List).

9. Vessels of war (surface or underwater), special naval equipment, accessories, components and other surface vessels, as follows:

N.B.: For guidance and navigation equipment, see Paragraph 11.

a. Vessels and components, as follows:

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 therefor specially designed for military use;

2. Surface vessels, other than those specified in Paragraph 9.a.1., having any of the following, fixed or integrated into the vessel:

a. Automatic weapons having a calibre of 12.7 mm or greater specified in Paragraph 1., or weapons specified in Paragraph

2., Paragraph 4., Paragraph 12. or Paragraph 19., or 'mountings' or hard points for such weapons;

Technical Note

'Mountings' refers to weapon mounts or structural strengthening for the purpose of installing weapons.

- b. Fire control systems specified in Paragraph 5.;
- c. Having all of the following:

1. 'Chemical, Biological, Radiological and Nuclear (CBRN) protection'; and

2. 'Pre-wet or wash down system' designed for decontamination purposes; or

Technical Notes

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.

d. Active weapon countermeasure systems specified in Paragraph 4.b., Paragraph 5.c. or Paragraph 11.a. and having any of the following:

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; or

4. A degaussing system designed to reduce the magnetic signature of the whole vessel;

b. Engines and propulsion systems, as follows, specially designed for military use and components therefor specially designed for military use:

1. Diesel engines specially designed for submarines and having all of the following:

- a. Power output of 1.12 MW (1,500 hp) or more; and
- b. Rotary speed of 700 rpm or more;

2. Electric motors specially designed for submarines and having all of the following:

- a. Power output of more than 0.75 MW (1,000 hp);
- b. Quick reversing;
- c. Liquid cooled; and
- d. Totally enclosed;
- 3. Non-magnetic diesel engines having all of the following:
 - a. Power output of 37.3 kW (50 hp) or more; and
 - b. Non-magnetic content in excess of 75 % of total mass;

4. 'Air Independent Propulsion' (AIP) systems specially designed for submarines;

Technical Note

'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 purposes of Paragraph 9.b.4., AIP does not include nuclear power.

- c. Underwater detection devices, specially designed for military use, controls therefor and components therefor specially designed for military use;
- d. Anti-submarine nets and anti-torpedo nets, specially designed for military use;
- e. Not used since 2003;
- 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;
 - Note: Paragraph 9.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. Paragraph 9.f. does not apply to ordinary propulsive shaft and hydrodynamic control-rod hull penetrators.

- 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; or
 - 3. Vibration suppression controls.

10. '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:

N.B.: For guidance and navigation equipment, see Paragraph 11.

- a. Combat 'aircraft' and specially designed components therefor;
- 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;
- c. Unmanned airborne vehicles and related equipment, specially designed or modified for military use, as follows, and specially designed components therefor:

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;
- d. Aero-engines specially designed or modified for military use, and specially designed components therefor;
- e. Airborne equipment, including airborne refuelling equipment, specially designed for use with the 'aircraft' specified by Paragraph 10.a. or Paragraph 10.b. or the aero-engines specified by Paragraph 10.d., and specially designed components therefor;
- f. Pressure refuellers, pressure refuelling equipment, equipment specially designed to facilitate operations in confined areas and ground equipment, developed specially for 'aircraft' specified by Paragraph 10.a. or Paragraph 10.b., or for aero-engines specified by Paragraph 10.d.;

- 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';
- h. Parachutes and related equipment, used for combat personnel, cargo dropping or 'aircraft' deceleration, as follows, and specially designed components therefor:
 - 1. Parachutes as follows:
 - 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.
 - Note 1: Paragraph 10.b. does not apply to 'aircraft' or variants of those 'aircraft' specially designed for military use, and which are all of the following:
 - a. Not configured for military use and not fitted with equipment or attachments specially designed or modified for military use; and
 - b. Certified for civil use by the civil aviation authority in a Member State or in a Wassenaar Arrangement Participating State.

Note 2: Paragraph 10.d. does not apply to:

a. Aero-engines designed or modified for military use which have been certified by civil aviation authorities in a Member State or

in a Wassenaar Arrangement Participating State for use in 'civil aircraft', or specially designed components therefor;

- *b.* Reciprocating engines or specially designed components therefor, except those specially designed for unmanned airborne vehicles.
- Note 3: Paragraph 10.b. and Paragraph 10.d. on specially designed components and related equipment for non-military 'aircraft' or aero-engines modified for military use applies only to those military components and to military related equipment required for the modification to military use.

11. Electronic equipment, not specified elsewhere on the EU Common Military List, as follows, and specially designed components therefor:

- a. Electronic equipment specially designed for military use;
 - Note: Paragraph 11 includes:
 - 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;
 - b. Frequency agile tubes;
 - 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;
 - d. Underwater countermeasures, including acoustic and magnetic jamming and decoy, equipment designed to introduce extraneous or erroneous signals into sonar receivers;
 - e. Data processing security equipment, data security equipment and transmission and signalling line security equipment, using ciphering processes;
 - f. Identification, authentification and keyloader equipment and key management, manufacturing and distribution equipment;
 - g. Guidance and navigation equipment;
 - *h. Digital troposcatter-radio communications transmission equipment;*
 - *i. Digital demodulators specially designed for signals intelligence;*
 - j. 'Automated command and control systems'.
- b. Global Navigation Satellite Systems (GNSS) jamming equipment.

12. High velocity kinetic energy weapon 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;
- b. Specially designed test and evaluation facilities and test models, including diagnostic instrumentation and targets, for dynamic testing of kinetic energy projectiles and systems.
- N.B.: For weapon systems using sub-calibre ammunition or employing solely chemical propulsion, and ammunition therefor, see Paragraph 1 to Paragraph 4.
- *Note 1:* Paragraph 12 includes the following when specially designed for kinetic energy weapon systems:
 - 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;
 - b. Prime power generation, electric armour, energy storage, thermal management, conditioning, switching or fuelhandling equipment; and electrical interfaces between power supply, gun and other turret electric drive functions;
 - c. Target acquisition, tracking, fire control or damage assessment systems;
 - *d.* Homing seeker, guidance or divert propulsion (lateral acceleration) systems for projectiles.
- *Note 2:* Paragraph 12 applies to weapon systems using any of the following methods of propulsion:
 - a. Electromagnetic;
 - b. *Electrothermal;*
 - c. Plasma;
 - d. Light gas; or
 - e. Chemical (when used in combination with any of the above).

13. Armoured or protective equipment, constructions and components, as follows:

a. Armoured plate, having any of the following:

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, and specially designed components therefor;
- 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);

- **30 [305]**
 - d. Body armour and protective garments, manufactured according to military standards or specifications, or equivalent, and specially designed components therefor.
 - Note 1: Paragraph 13.b. includes materials specially designed to form explosive reactive armour or to construct military shelters.
 - Note 2: Paragraph 13.c. does not apply to conventional steel helmets, neither modified or designed to accept, nor equipped with any type of accessory device.
 - *Note 3: Paragraph 13.c. and d. do not apply to helmets, body armour or protective garments, when accompanying their user for the user's own personal protection.*
 - Note 4: The only helmets specially designed for bomb disposal personnel that are specified by Paragraph 13. are those specially designed for military use.
 - N.B. 1: See also entry 1A005 on the EU Dual-Use List.
 - *N.B. 2: For 'fibrous or filamentary materials' used in the manufacture of body armour and helmets, see entry 1C010 on the EU Dual Use List*

14. 'Specialised equipment for military training' or for simulating military scenarios, simulators specially designed for training in the use of any firearm or weapon specified by Paragraph 1 or Paragraph 2, and specially designed components and accessories therefor.

Technical Note

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 trainers, pilotless 'aircraft' trainers, mobile training units and training equipment for ground military operations.

- Note 1: Paragraph 14 includes image generating and interactive environment systems for simulators, when specially designed or modified for military use.
- *Note 2: Paragraph 14 does not apply to equipment specially designed for training in the use of hunting or sporting weapons.*

15. 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 by Paragraph 15.a. to Paragraph 15.e.
- *Note:* Paragraph 15.f. includes equipment designed to degrade the operation or effectiveness of military imaging systems or to minimize such degrading effects.
- *Note 1: In Paragraph 15, the term specially designed components includes the following when specially designed for military use:*
 - a. Infrared image converter tubes;
 - b. Image intensifier tubes (other than first generation);
 - c. Microchannel plates;
- d. Low-light-level television camera tubes;
- e. Detector arrays (including electronic interconnection or read out systems);
- f. Pyroelectric television camera tubes;
- g. Cooling systems for imaging systems;
- h. Electrically triggered shutters of the photochromic or electro-optical 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. Fibre optic image inverters;
- j. Compound semiconductor photocathodes
- *Note 2: Paragraph 15 does not apply to 'first generation image intensifier tubes' or equipment specially designed to incorporate 'first generation image intensifier tube'.*
 - N.B.: For the classification of weapons sights incorporating 'first generation image intensifier tubes' see Paragraph 1., Paragraph 2. and Paragraph 5.a.
 - N.B.: See also 6A002.a.2. and 6A002.b. on the EU Dual-Use List.

16. Forgings, castings and other unfinished products the use of which in a specified product is identifiable by material composition, geometry or function,

and which are specially designed for any products specified by Paragraph 1 to Paragraph 4, Paragraph 6, Paragraph 9, Paragraph 10, Paragraph 12 or Paragraph 19.

17. Miscellaneous equipment, materials 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 (i.e. specially designed to be non magnetic);
 - 2. Specially designed components for use in the conversion of opencircuit apparatus to military use;
 - 3. Articles 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 (e.g. 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 (e.g. machinery, appliances or electronics) or lightning.

- f. 'Libraries' (parametric technical databases) specially designed for military use with equipment specified by the EU Common Military List;
- 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;

- h. Equipment and material, coated or treated for signature suppression, specially designed for military use, other than those specified elsewhere in the EU Common Military List;
- 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;
- 1. Containers specially designed or 'modified' for military use;
- m. Ferries, other than those specified elsewhere in the EU Common Military List, bridges and pontoons, specially designed for military use;
- n. Test models specially designed for the 'development' of items specified by Paragraph 4, Paragraph 6, Paragraph 9 or Paragraph 10;
- o. Laser protection equipment (e.g. eye and sensor protection) specially designed for military use.

Technical Notes

- 1. For the purpose of Paragraph 17, the term 'library' (parametric technical database) means a collection of technical information of a military nature, reference to which may enhance the performance of military equipment or systems.
- 2. For the purpose of Paragraph 17, 'modified' means any structural, electrical, mechanical, or other change that provides a non-military item with military capabilities equivalent to an item which is specially designed for military use.

18. Production equipment and components, as follows:

- a. Specially designed or modified 'production' equipment for the 'production' of products specified by the EU Common Military List, and specially designed components therefor;
- b. Specially designed environmental test facilities and specially designed equipment therefor, for the certification, qualification or testing of products specified by the EU Common Military List.

Technical Note

For the purposes of Paragraph 18, the term 'production' includes design, examination, manufacture, testing and checking.

Note: Paragraph 18.a. and Paragraph 18.b. include the following equipment:

- 34 **[305]**
 - a. Continuous nitrators;
 - *b.* Centrifugal testing apparatus or equipment having any of the following:
 - 1. Driven by a motor or motors having a total rated horsepower of more than 298 kW(400 hp);
 - 2. Capable of carrying a payload of 113 kg or more; or
 - 3. Capable of exerting a centrifugal acceleration of 8 g or more on a payload of 91 kg or more;
 - c. Dehydration presses;
 - d. Screw extruders specially designed or modified for military explosive extrusion;
 - e. Cutting machines for the sizing of extruded propellants;
 - f. Sweetie barrels (tumblers) 1.85 m or more in diameter and having over 227 kg product capacity;
 - g. Continuous mixers for solid propellants;
 - h. Fluid energy mills for grinding or milling the ingredients of military explosives;
 - i. Equipment to achieve both sphericity and uniform particle size in metal powder listed in Paragraph 8.c.8.;
 - j. Convection current converters for the conversion of materials listed in *Paragraph 8.c.3.*

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

- a. 'Laser' systems specially designed for destruction or effecting missionabort 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 by Paragraph 19.a. to Paragraph 19.c.;

- e. Physical test models for the systems, equipment and components, specified by Paragraph 19.
- 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.
- *Note 1: Directed energy weapon systems specified by Paragraph 19 include systems whose capability is derived from the controlled application of:*
 - a. 'Lasers' of sufficient continuous wave or pulsed power, to effect destruction similar to the manner of conventional ammunition;
 - b. *Particle accelerators which project a charged or neutral particle beam with destructive power;*
 - 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.
- *Note 2: Paragraph 19 includes the following when specially designed for directed energy weapon systems:*
 - a. Prime power generation, energy storage, switching, power conditioning or fuel-handling equipment;
 - b. Target acquisition or tracking systems;
 - c. Systems capable of assessing target damage, destruction or mission-abort;
 - d. Beam-handling, propagation or pointing equipment;
 - e. Equipment with rapid beam slew capability for rapid multiple target operations;
 - f. Adaptive optics and phase conjugators;
 - g. Current injectors for negative hydrogen ion beams;
 - h. 'Space qualified' accelerator components;
 - i. Negative ion beam funnelling equipment;
 - j. Equipment for controlling and slewing a high energy ion beam;
 - k. 'Space qualified' foils for neutralising negative hydrogen isotope beams.

20. Cryogenic and 'superconductive' equipment, as follows, and specially designed components and accessories therefor:

- 36 **[305]**
 - 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);
 - *Note:* Paragraph 20.a. includes mobile systems incorporating or employing accessories or components manufactured from nonmetallic or non-electrical conductive materials, such as plastics or epoxy-impregnated materials.
 - 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: Paragraph 20.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.

21. 'Software', as follows:

- a. 'Software' specially designed or modified for the 'development', 'production' or 'use' of equipment, materials or 'software', specified by the EU Common Military List;
- b. Specific 'software', other than that specified by Paragraph 21.a., as follows:
 - 1. 'Software' specially designed for military use and specially designed 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 (C³I) or Command, Communications, Control, Computer and Intelligence (C⁴I) applications;
- c. 'Software', not specified by Paragraph 21.a., or b., specially designed or modified to enable equipment not specified by the EU Common Military List to perform the military functions of equipment specified by the EU Common Military List.

22. 'Technology' as follows:

- a. 'Technology', other than specified in Paragraph 22.b., which is 'required' for the 'development', 'production' or 'use' of items specified in the EU Common Military List;.
- b. 'Technology' as follows:
 - '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 the Common Military List of The European Union, 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 by Paragraph 7.a. to Paragraph 7.g.;
 - 4. 'Technology' 'required' for the 'development', 'production' or 'use' of 'biopolymers' or cultures of specific cells, specified by Paragraph 7.h.;
 - 5. 'Technology' 'required' exclusively for the incorporation of 'biocatalysts', specified by Paragraph 7.i.1., into military carrier substances or military material.
 - Note 1: 'Technology' 'required' for the 'development', 'production' or 'use' of items specified by the EU Common Military List remains under control even when applicable to any item not specified by the EU Common Military List.
 - Note 2: Paragraph 22 does not apply to:
 - a. 'Technology' that is the minimum necessary for the installation, operation, maintenance (checking) and repair, of those items which are not controlled or whose export has been authorised;
 - b. 'Technology' that is 'in the public domain', 'basic scientific research' or the minimum necessary information for patent applications;
 - c. 'Technology' for magnetic induction for continuous propulsion of civil transport devices.

DEFINITIONS OF TERMS USED IN THIS SCHEDULE

Note 1: The references are purely advisory and have no effect on the universal application of defined terms throughout the Schedule.

Note 2: Words and terms contained in this Schedule only take the defined meaning where this is indicated by their being enclosed in 'double quotations marks'. Definitions of terms between 'single quotation marks' are given in a Technical note to the relevant item. Elsewhere, words and terms take their commonly accepted (dictionary) meanings.

Paragraph 7 'Adapted for use in war'

Any modification or selection (such as altering purity, shelf life, virulence, dissemination characteristics, or resistance to UV radiation) designed to increase the effectiveness in producing casualties in humans or animals, degrading equipment or damaging crops or the environment.

Paragraph 8 'Additives'

Substances used in explosive formulations to improve their properties.

Paragraphs 8, 9 and 10 'Aircraft'

A fixed wing, swivel wing, rotary wing (helicopter), tilt rotor or tilt-wing airborne vehicle.

Paragraph 11'Automated Command and Control Systems'

Electronic systems, through which information essential to the effective operation of the grouping, major formation, tactical formation, unit, ship, subunit or weapons under command is entered, processed and transmitted. This is achieved by the use of computer and other specialised hardware designed to support the functions of a military command and control organisation. The main functions of an automated command and control system are: the efficient automated collection, accumulation, storage and processing of information; the display of the situation and the circumstances affecting the preparation and conduct of combat operations; operational and tactical calculations for the allocation of resources among force groupings or elements of the operational order of battle or battle deployment according to the mission or stage of the operation; the preparation of data for appreciation of the situation and decision-making at any point during operation or battle; computer simulation of operations.

Paragraph 22 'Basic scientific research'

Experimental or theoretical work undertaken principally to acquire new knowledge of the fundamental principles of phenomena or observable facts, not primarily directed towards a specific practical aim or objective.

Paragraphs 7 and 22 'Biocatalysts'

Enzymes for specific chemical or biochemical reactions or other biological compounds which bind to and accelerate the degradation of CW agents.

Technical Note

'Enzymes' means 'biocatalysts' for specific chemical or biochemical reactions.

Paragraphs 7 and 22 'Biopolymers'

Biological macromolecules as follows:

- a. Enzymes for specific chemical or biochemical reactions;
- b. Antibodies, monoclonal, polyclonal or anti-idiotypic;
- c. Specially designed or specially processed receptors;

Technical Notes

- 1. 'Anti-idiotypicantibodies' means antibodies which bind to the specific antigen binding sites of other antibodies;
- 2. 'Monoclonal antibodies' means proteins which bind to one antigenic site and are produced by a single clone of cells;
- 3. 'Polyclonal antibodies' means a mixture of proteins which bind to the specific antigen and are produced by more than one clone of cells;
- 4. 'Receptors' means biological macromolecular structures capable of binding ligands, the binding of which affects physiological functions.

Paragraph 10 'Civil aircraft'

Those 'aircraft' listed by designation in published airworthiness certification lists by the civil aviation authorities to fly commercial civil internal and external routes or for legitimate civil, private or business use.

Paragraph 21 and 22 'Development'

Is related to all stages prior to serial production, such as: design, design research, design analyses, design concepts, assembly and testing of prototypes, pilot production schemes, design data, process of transforming design data into a product, configuration design, integration design, layouts.

Paragraph 17 'End-effectors'

Grippers, active tooling units and any other tooling that is attached to the baseplate on the end of a 'robot' manipulator arm.

Technical Note

'Active tooling units' are devices for applying motive power, process energy or sensing to a work piece.

Paragraph 4 and 8 'Energetic materials'

Substances or mixtures that react chemically to release energy required for their intended application. 'Explosives', 'pyrotechnics' and 'propellants' are subclasses of energetic materials.

Paragraph 8 and 18 'Explosives'

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.

Paragraph 7 'Expression Vectors'

Carriers (e.g. plasmid or virus) used to introduce genetic material into host cells.

Paragraph 13 'Fibrous or filamentary materials' Include:

- a. Continuous monofilaments;
- b. Continuous yarns and rovings;
- c. Tapes, fabrics, random mats and braids;
- d. Chopped fibres, staple fibres and coherent fibre blankets;
- e. Whiskers, either monocrystalline or polycrystalline, of any length;
- f. Aromatic polyamide pulp.

Paragraph 15 'First generation image intensifier tubes'

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.

Paragraph 22 'In the public domain'

This means 'technology' or 'software' which has been made available without restrictions upon its further dissemination.

Note: Copyright restrictions do not remove 'technology' or 'software' from being 'in the public domain'.

Paragraph 5 and 19 'Laser'

An assembly of components which produce both spatially and temporally coherent light that is amplified by stimulated emission of radiation.

Paragraph 10 'Lighter-than-air vehicles'

Balloons and airships that rely on hot air or on lighter-than-air gases such as helium or hydrogen for their lift.

Paragraph 17 'Nuclear reactor'

Includes the items 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 or come into direct contact with or control the primary coolant of the reactor core.

Paragraph 8 'Precursors'

Speciality chemicals used in the manufacture of explosives.

Paragraph 21 and 22 'Production'

Means all production stages, such as: product engineering, manufacture, integration, assembly (mounting), inspection, testing, quality assurance.

Paragraph 8 'Propellants'

Substances or mixtures that react chemically to produce large volumes of hot gases at controlled rates to perform mechanical work.

Paragraph 4 and 8 'Pyrotechnic(s)'

Mixtures of solid or liquid fuels and oxidizers 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 oxidizers but ignite spontaneously on contact with air.

Paragraph 22 '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 products.

Paragraph 7 'Riot control agents'

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. (Tear gases are a subset of 'riot control agents'.)

Paragraph 17 'Robot'

A manipulation mechanism, which may be of the continuous path or of the point-to-point variety, may use sensors, and has all the following characteristics: 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, i.e. without mechanical intervention.

Note: The above definition does not include the following devices:

1. Manipulation mechanisms which are only manually/teleoperator controllable;

- 2. Fixed sequence manipulation mechanisms which are automated moving devices, operating according to mechanically fixed programmed motions. The programme is mechanically limited by fixed stops, such as pins or cams. The sequence of motions and the selection of paths or angles are not variable or changeable by mechanical, electronic or electrical means;
- 3. Mechanically controlled variable sequence manipulation mechanisms which are automated moving devices, operating according to mechanically fixed programmed motions. The programme is mechanically limited by fixed, but adjustable, stops, such as pins or cams. 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 (e.g. changes of pins or exchanges of cams) in one or more motion axes are accomplished only through mechanical operations;
- 4. 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;

5. 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.

Paragraph 19 'Space qualified'

Products designed, manufactured and tested to meet the special electrical, mechanical or environmental requirements for use in the launch and deployment of satellites or high altitude flight systems operating at altitudes of 100 km or higher.

Paragraph 18 and 20 'Superconductive'

Refers to materials, (i.e. metals, alloys or compounds) which can lose all electrical resistance (i.e. which can attain infinite electrical conductivity and carry very large electrical currents without Joule heating).

Technical Note

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, however, a function of both magnetic field and temperature.

Paragraph 21 and 22 'Use'

Operation, installation (including on-site installation), maintenance (checking), repair, overhaul and refurbishing.



MARY COUGHLAN, Minister for Enterprise, Trade and Employment.

EXPLANATORY NOTE

(This note is not part of the Instrument and does not purport to be a legal interpretation).

The effect of this Order is to enable the Minister for Enterprise, Trade and Employment to control the export of the goods indicated in the Schedule to this Order.

The Order repeals S.I. No. 884 of 2005.

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