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Last updated: 20 March 2013

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- CATEGORY 1 - SPECIAL MATERIALS AND RELATED EQUIPMENT
 - 1C Materials
 - 1C350 Chemicals, which may be used as precursors for toxic chemical agents, as follows, and "chemical mixtures" containing one or more thereof:
 - 24. Hydrogen fluoride (7664-39-3);
 - 42. Ammonium hydrogen fluoride or ammonium bifluoride (1341-49-7);
- CATEGORY 6 - SENSORS AND LASERS
 - 6A Systems, Equipment and Components
 - 6A005 "Lasers", other than those specified in 0B001.g.5. or 0B001.h.6., components and optical equipment, as follows:
 - d. Other "lasers", not specified in 6A005.a., 6A005.b. or 6A005.c. as follows:
 - 5. "Chemical lasers" as follows:
 - a. Hydrogen Fluoride (HF) "lasers"

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ANNEX I LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 1 - SPECIAL MATERIALS AND RELATED EQUIPMENT

1C Materials

1C350 Chemicals, which may be used as precursors for toxic chemical agents, as follows, and "chemical mixtures" containing one or more thereof:

24. Hydrogen fluoride (7664-39-3);

42. Ammonium hydrogen fluoride or ammonium bifluoride (1341-49-7);

CATEGORY 6 - SENSORS AND LASERS

6A Systems, Equipment and Components

6A005 "Lasers", other than those specified in 0B001.g.5. or 0B001.h.6., components and optical equipment, as follows:

d. Other "lasers", not specified in 6A005.a., 6A005.b. or 6A005.c. as follows:

5. "Chemical lasers" as follows:

a. Hydrogen Fluoride (HF) "lasers"

ANNEX I. LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 1 - SPECIAL MATERIALS, AND RELATED EQUIPMENT

1C350.

24. Hydrogen fluoride (7664-39-3);

Reasons for control

Hydrogen fluoride is employed in refining uranium for use as a nuclear fuel, manufacturing various organic chemicals, producing stainless steel, and for various other applications. Major industrial uses of hydrogen fluoride include the synthesis of fluorocarbons (e.g., Freon and Teflon) and the production of aluminum fluoride and synthetic cryolite for use in aluminum refining. Hydrogen fluoride is available commercially either in an anhydrous (water-free) state or in water solutions of various concentrations. Since it attacks glass, it is usually stored in steel tanks, cylinders, drums, or in plastic bottles (for very small amounts).

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ANNEX I LIST OF DUAL-USE ITEMS AND TECHNOLOGY

DEFINITIONS OF TERMS USED IN THIS ANNEX

"Microprocessor microcircuit" (3) means a "monolithic integrated circuit" or "multichip integrated circuit" containing an arithmetic logic unit (ALU) capable of executing a series of general purpose instructions from an external storage. N.B. 1: The "microprocessor microcircuit" normally does not contain integral user-accessible storage, although storage present on-the-chip may be used in performing its logic function. N.B. 2: This includes chip sets which are designed to operate together to provide the function of a "microprocessor microcircuit".

CATEGORY 3 - ELECTRONICS

3A Systems, Equipment and Components

3A001 Electronic components, and specially designed components therefor, as follows:

a. General purpose integrated circuits, as follows:

1. Integrated circuits designed or rated as radiation hardened to withstand any of the following:

2. "Microprocessor microcircuits", "microcomputer microcircuits", microcontroller microcircuits, storage integrated circuits manufactured from a compound semiconductor, analogue-to-digital converters, digital-to-analogue converters, electro-optical or "optical integrated circuits" designed for "signal processing", field programmable logic devices, custom

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CATEGORY 3 - ELECTRONICS

3A Systems, Equipment and Components

3A001 Electronic components, and specially designed components therefor, as follows:

a. General purpose integrated circuits, as follows:

1. Integrated circuits designed or rated as radiation hardened to withstand any of the following:

2. "**Microprocessor** microcircuits", "microcomputer microcircuits", microcontroller microcircuits, storage integrated circuits manufactured from a compound semiconductor, analogue-to-digital converters, digital-to-analogue converters, electro-optical or "optical integrated circuits" designed for "signal processing", field programmable logic devices, custom

ANNEX I. LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 3 - ELECTRONICS

3A001.a

2. "**Microprocessor** microcircuits", "microcomputer microcircuits", microcontroller microcircuits, storage integrated circuits manufactured from a compound semiconductor, analogue-to-digital converters, digital-to-analogue converters, electro-optical or "optical integrated circuits" designed for "signal processing", field programmable logic devices, custom integrated circuits for which either the function is unknown or the control status of the equipment in which the integrated circuit will be used is unknown, Fast Fourier Transform (FFT) processors, electrical erasable programmable read-only memories (EEPROMs), flash memories or static random-access memories (SRAMs), having any of the following:

a. Rated for operation at an ambient temperature above 398 K (125°C);

b. Rated for operation at an ambient temperature below 218 K (-55°C); or

c. Rated for operation over the entire ambient temperature range from 218 K (-55°C) to 398 K (125°C);

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ANNEX I LIST OF DUAL-USE ITEMS AND TECHNOLOGY

DEFINITIONS OF TERMS USED IN THIS ANNEX

"Carbon fibre preforms" (1) means an ordered arrangement of uncoated or coated fibres intended to constitute a framework of a part before the "matrix" is introduced to form a "composite".

CATEGORY 1 - SPECIAL MATERIALS AND RELATED EQUIPMENT

1B Test, Inspection and Production Equipment

1B001 Equipment for the production or inspection of "composite" structures or laminates specified in 1A002 or "fibrous or filamentary materials" specified in 1C010, as follows, and specially designed components and accessories therefor:

d. Equipment specially designed or adapted for the production of reinforcement fibres, as follows:

1. Equipment for converting polymeric fibres (such as polyacrylonitrile, rayon, pitch or polycarbosilane) into carbon fibres or silicon carbide fibres, including special equipment to strain the fibre during heating;

1C Materials

1C010 "Fibrous or filamentary materials", as follows:

e. Fully or partially resin-impregnated or pitch-impregnated "fibrous or filamentary materials" (prepregs), metal or carbon-coated "fibrous or filamentary materials" (preforms) or "carbon fibre preforms", having all of the following:

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ANNEX I LIST OF DUAL-USE ITEMS AND TECHNOLOGY

DEFINITIONS OF TERMS USED IN THIS ANNEX

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CATEGORY 1 - SPECIAL MATERIALS AND RELATED EQUIPMENT

1B Test, Inspection and Production Equipment

- 1B001 Equipment for the production or inspection of "composite" structures or laminates specified in 1A002 or "fibrous or filamentary materials" specified in 1C010, as follows, and specially designed components and accessories therefor:

- d. Equipment specially designed or adapted for the production of reinforcement fibres, as follows:

- 1. Equipment for converting polymeric fibres (such as polyacrylonitrile, rayon, pitch or polycarbosilane) into carbon fibres or silicon carbide fibres, including special equipment to strain the fibre during heating;

1C Materials

- 1C010 "Fibrous or filamentary materials", as follows:

- e. Fully or partially resin-impregnated or pitch-impregnated "fibrous or filamentary materials" (prepregs), metal or carbon-coated "fibrous or filamentary materials" (preforms) or "carbon fibre preforms", having all of the following:

ANNEX I. LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 1 - SPECIAL MATERIALS, AND RELATED EQUIPMENT

1C010.e.1

- b. Organic or carbon "fibrous or filamentary materials", having all of the following:

- 1. "Specific modulus" exceeding 10.15×10^6 m; and
- 2. "Specific tensile strength" exceeding 17.7×10^4 m; and

Note 1: Metal or carbon-coated "fibrous or filamentary materials" (preforms) or "carbon fibre preforms", not impregnated with resin or pitch, are specified by "fibrous or filamentary materials" in 1C010.a., 1C010.b. or 1C010.c.

Note 2: 1C010.e. does not control:

- a. Epoxy resin "matrix" impregnated carbon "fibrous or filamentary materials" (prepregs) for the repair of "civil aircraft" structures or laminates, having all the following;

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- PL9006 The export of electro-statically powered equipment for detecting "explosives", other than detection equipment specified in Schedule 2, PL8001.a.1 or in 1A004.d in Annex I to "the dual-use Regulation", is prohibited to any destination in Afghanistan or Iraq.

ANNEX I LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 1 - SPECIAL MATERIALS AND RELATED EQUIPMENT

1A Systems, Equipment and Components

- 1A001 Components made from fluorinated compounds, as follows:
 - a. Seals, gaskets, sealants or fuel bladders specially designed for "aircraft" or aerospace use made from more than 50 % by weight of any of the materials specified in 1C009.b. or 1C009.c.;
 - b. Piezoelectric polymers and copolymers made from vinylidene fluoride (CAS 75-38-7) materials specified in 1C009.a. Having all of the following:
 1. In sheet or film form; and
 2. With a thickness exceeding 200 µm;
 - c. Seals, gaskets, valve seats, bladders or diaphragms having all of the following:
 1. Made from fluoroelastomers containing at least one vinyl ether group as a constitutional unit; and
 2. Specially designed for "aircraft", aerospace or 'missile' use.
- 1A002 "Composite" structures or laminates, having any of the following:
 - a. Consisting of an organic "matrix" and materials specified in 1C010.c.,

ANNEX I. LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 1 - SPECIAL MATERIALS, AND RELATED EQUIPMENT

ANNEX.CATEGORY

1A Systems, Equipment and Components

- 1A001 Components made from fluorinated compounds, as follows:
- 1A002 "Composite" structures or laminates, having any of the following:
- 1A003 Manufactures of non-"fusible" aromatic polyimides in film, sheet, tape or ribbon form having any of the following:
- 1A004 Protective and detection equipment and components, other than those specified in military goods controls, as follows:
- 1A005 Body armour, and specially designed components therefor, other than those manufactured to military standards or specifications or to their equivalents in performance.
- 1A006 Equipment, specially designed or modified for the disposal of improvised explosive devices, as follows, and specially designed components and accessories

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ANNEX I LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 1 - SPECIAL MATERIALS AND RELATED EQUIPMENT

1A Systems, Equipment and Components

- 1A001 Components made from fluorinated compounds, as follows:
 - a. Seals, gaskets, sealants or fuel bladders specially designed for "aircraft" or aerospace use made from more than 50 % by weight of any of the materials specified in 1C009.b. or 1C009.c.;
 - b. Piezoelectric polymers and copolymers made from vinylidene fluoride (CAS 75-38-7) materials specified in 1C009.a. Having all of the following:
 - 1. In sheet or film form; and
 - 2. With a thickness exceeding 200 µm;
 - c. Seals, gaskets, valve seats, bladders or diaphragms having all of the following:
 - 1. Made from fluoroelastomers containing at least one vinyl ether group as a constitutional unit; and
 - 2. Specially designed for "aircraft", aerospace or 'missile' use.
- 1A002 "Composite" structures or laminates, having any of the following:
 - a. Consisting of an organic "matrix" and materials specified in 1C010.c.,

ANNEX I. LIST OF DUAL-USE ITEMS AND TECHNOLOGY

CATEGORY 1 - SPECIAL MATERIALS, AND RELATED EQUIPMENT

1A002.b

1. Carbon "fibrous or filamentary materials" having all of the following:

- a. A "specific modulus" exceeding 10.15×10^6 m; and
- b. A "specific tensile strength" exceeding 17.7×10^4 m; or

Definition of Terms

Fibrous or filamentary materials

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1A Systems, Equipment and Components

1A001 Components made from fluorinated compounds, as follows:

a. Seals, gaskets, sealants or fuel bladders specially designed for "aircraft" or aerospace use made from more than 50 % by weight of any of the materials specified in 1C009.b. or 1C009.c.;

b. Piezoelectric polymers and copolymers made from vinylidene fluoride (CAS 75-38-7) materials specified in 1C009.a. Having all of the following:

1. In sheet or film form; and

2. With a thickness exceeding 200 µm;

c. Seals, gaskets, valve seats, bladders or diaphragms having all of the following:

1. Made from fluoroelastomers containing at least one vinyl ether group as a constitutional unit; and

2. Specially designed for "aircraft", aerospace or 'missile' use.

1A002 "Composite" structures or laminates, having any of the following:

a. Consisting of an organic "matrix" and materials specified in 1C010.c., 1C010.d. or 1C010.e.; or

b. Consisting of a metal or carbon "matrix" and any of the following:

1. Carbon "fibrous or filamentary materials" having all of the following:

a. A "specific modulus" exceeding 10.15×10^6 m; and

b. A "specific tensile strength" exceeding 17.7×10^4 m; or

a. Consisting of an organic "matrix" and materials specified in 1C010.c., 1C010.d. or 1C010.e.; or

b. Consisting of a metal or carbon "matrix" and any of the following:

Note 1: 1A002 does not control composite structures or laminates made from epoxy resin impregnated carbon "fibrous or filamentary materials" for the repair of "civil aircraft" structures or laminates, having all of the following:

a. An area not exceeding 1 m² ;

b. A length not exceeding 2.5 m; and

c. A width exceeding 15 mm.

Note 2: 1A002 does not control semi-finished items specially designed for purely civilian applications as follows:

a. Sporting goods;

b. Automotive industry;

c. Machine tool industry;

d. Medical applications.

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