

War Weapons List

Part A

War Weapons

that the Federal Republic of Germany undertakes not to manufacture (nuclear weapons, biological and chemical weapons)

All apparatus, parts, equipment, installations, substances and organisms, which are used for civilian purposes or for scientific, medical and industrial research in the fields of pure and applied science shall be excluded from this definition. The substances and organisms of numbers 3 and 5, as far as they serve the purpose of prevention, protection and proof shall also be excluded.

I. Nuclear Weapons

1. Any weapon which contains, or is designed to contain or utilize, nuclear fuel or radioactive isotopes and which is capable of mass destruction, mass injury or mass poisoning.
2. Any part, device, assembly or material especially designed for, or primarily useful in, any weapon referred to in number 1, where no licences subject to the Atomic Law have been granted.

Definition:

Nuclear fuel includes plutonium, Uranium 233, Uranium 235 (including Uranium 235 contained in Uranium enriched to over 2.1 per cent by weight of Uranium 235) and any other material capable of releasing substantial quantities of atomic energy through nuclear fission or fusion or other nuclear reaction of the material. The foregoing material shall be considered to be nuclear fuel regardless of the chemical or physical form in which they exist.

II. Biological Weapons

3. Biological warfare agents
 - a. harmful insects and their toxic products
 - b. biological agents (micro-organisms, viruses and toxins); in particular —
 - 3.1. Human pathogens, zoonoses and toxins:
 - a) Viruses, as follows:—
 - a. Chikungunya virus;
 - b. Congo-Crimean haemorrhagic fever virus;
 - c. Dengue fever virus;
 - d. Eastern equine encephalitis virus;
 - e. Ebola virus;
 - f. Hantaan virus;
 - g. Junin virus;
 - h. Lassa fever virus;
 - i. Lymphocytic choriomeningitis virus;

- j. Machupo virus;
- k. Marburg virus;
- l. Monkey pox virus;
- m. Rift Valley fever virus;
- n. Tick-borne encephalitis virus (Russian Spring-Summer encephalitis virus);
- o. Variola virus;
- p. Venezuelan equine encephalitis virus;
- q. Western equine encephalitis virus;
- r. White pox
- s. Yellow fever virus;
- t. Japanese encephalitis virus;

b) Rickettsiae, as follows:—

- a. *Coxiella burnetii*;
- b. *Bartonella quintana* (*Rochalimaea quintana*, *Rickettsia quintana*);
- c. *Rickettsia prowasecki*;
- d. *Rickettsia rickettsii*;

c) Bacteria as follows:—

- a. *Bacillus anthracis*;
- b. *Brucella abortus*;
- c. *Brucella melitensis*;
- d. *Brucella suis*;
- e. *Chlamydia psittaci*;
- f. *Clostridium botulinum*
- g. *Francisella tularensis*;
- h. *Burkholderia mallei* (*Pseudomonas mallei*);
- i. *Burkholderia pseudomallei* (*Pseudomonas pseudomallei*);
- j. *Salmonella dysenteriae*;
- k. *Vibrio cholerae*;
- l. *Yersinia pestis*;

d) Toxins, as follows:—

- a. Botulinum toxins;
- b. *Clostridium perfringens* toxins;
- c. Conotoxin;
- d. Ricin;
- e. Saxitoxin;
- f. Shiga toxin;
- g. *Staphylococcus aureus* toxins;
- h. Tetrodotoxin;
- i. Verotoxin
- j. Microcystin (Cyanginosin);

3.2. Animal pathogens:

a) Viruses, as follows:—

1. African swine fever virus;
2. Avian influenza virus, which are:—
 - a. Uncharacterised; or
 - b. Defined in Council Directive 92/40/EEC of May 19, 1992, introducing Community measures for the control of avian influenza (OJ L 167/1–16, June 22, 1992) as having high pathogenicity, as follows:—
 - a. Type A viruses with an IVPI (intravenous pathogenicity index) in 6 week old chickens of greater than 1.2; or
 - b. Type A viruses H5 or H7 subtype for which nucleotide sequencing has demonstrated multiple basic amino acids at the cleavage site of haemag-glutinin;

3. Bluetongue virus;
4. Foot and mouth disease virus;
4. Goat pox virus;
5. Porcine herpes virus (Aujeszky's disease);
6. Swine fever virus (Hog cholera virus);
7. Lyssa virus;
8. Newcastle disease virus;
9. Peste des petits ruminants virus;
10. Porcine enterovirus type 9 (swine vesicular disease virus);
11. Rinderpest virus
12. Sheep pox virus;
13. Teschen disease virus;
14. Vesicular stomatitis virus;

b) Bacteria, as follows:—

Mycoplasma mycoides

3.3. Plant pathogenes:

a) Bacteria, as follows:—

- a. *Xanthomonas albilineans*;
- b. *Xanthomonas campestris* pv. *citri* including strains referred to as *Xanthomonas campestris* pv. *citri* types A,B,C,D,E or otherwise classified as *Xanthomonas citri*, *Xanthomonas campestris* pv. *auxantifolia* or *Xanthomonas campestris* pv. *citrumelo*;

b) Fungi, as follows:—

- a. *Colletroichum coffeanum* var. *virulans* (*Colletrichum kahawae*);
- b. *Cochliobolus miyabeanus* (*Helminthosporium oryzae*);
- c. *Microcyclus ulei* (syn. *Dothidella ulei*);
- d. *Puccinia graminis* (syn. *Puccinia graminis* f. sp. *tritici*);
- e. *Puccinia striiformis* (syn. *Puccinia glumarum*);
- f. *Magnaporthe grisea* (*pyricularia grisea/pyricularia oryzae*);

3.4. Genetically-modified microorganisms, as follows:—

- a. Genetically modified microorganisms or genetic elements that contain nucleic acid sequences associated with pathogenicity of organisms specified in item 3.1, sub-items (a), (b) or (c), or in items 3.2. or 3.3.;
- b. Genetically modified microorganisms or genetic elements that contain nucleic acid sequences coding for any of the toxins specified in item 3.1, subitem (d), or sub-units of toxins thereof.

4. Any apparatus of equipment expressly designed to use the biological agents referred to in number 3 for military purposes, as well as components or assemblies destined specifically for application in such weapon

III. Chemical Weapons

5. A. Toxic chemicals

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

Sarin, O-Isopropyl methylphosphorofluoridate (CAS 107-14-8);

Soman, O-Pinacolyl methylphosphorofluoridate (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: 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) phosphorothiolates and corresponding alkylated and protonated salts, such as:—

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

d) Sulphur mustards, such as:—

2-Chloroethylchloromethylsulphide (CAS 2625-76-5);

Bis(2-chloroethyl) sulphide (CAS 505-60-2);

Bis(2-chloroethylthio) methane (CAS 63869-13-6);

1,2-bis (2-chloroethylthio) ether (CAS 3563-36-8);

1,3-bis (2-chloroethylthio)-n-propane (CAS 63905-10-2);

1,4-bis (2-chloroethylthio)-n-butane (CAS 142868-93-7);

1,5-bis (2-chloroethylthio)-n-pentane (CAS 142868-94-8);

Bis (2-chloroethylthiomethyl) ether (CAS 63918-90-1);

Bis (2-chloromethylthioethyl) ether (CAS 63918-89-8);

e) Lewisites, such as:—

2-chlorovinyl dichloroarsine (CAS 541-25-3);

Bis (2-chlorovinyl) chloroarsine (CAS 40334-69-8);

Tris (2-chlorovinyl) arsine (CAS 40334-70-1);

- f) Nitrogen mustards, such as:—
HN1: bis (2-chloroethyl) ethylamine (CAS 538-07-8);
HN2: bis (2-chloroethyl) methylamine (CAS 51-75-2);
HN3: tris (2-chloroethyl) amine (CAS 555-77-1);
g) 3-Chinuclinyl benzilate (BZ) (CAS 6581-06-2).

B. Precursors

- a) Alkyl (Methyl, Ethyl, n-Propyl or Isopropyl Phosphoryl Difluorides, such as: DF: Methyl Phosphonyldifluoride (CAS 676-99-3);
b) O-Alkyl (H or equal to or less than C10 including cycloalkyl) O-2-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethyl alkyl (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)
c) Chlorosarin: O-Isopropyl methylphosphonochloridate (CAS 1445-76-7);
d) Chlorosoman: O-Pinacolyl methylphosphonochloridate (CAS 7040-57-5).
6. Installations or equipment intended for the military application of the chemical agents referred to in number 5, as well as components or assemblies destined specifically for application in such a weapon.

Part B

Other War Weapons

I. Projectiles

7. Guided projectiles
8. Unguided projectiles (missiles)
9. Other projectiles
10. Firing devices (launchers and launching equipment) for the weapons specified in numbers 7 to 9 including portable firing devices for guided projectiles to combat tanks and aircraft
11. Firing devices for weapons specified in number 8, including portable firing devices as well as rocket launchers
12. Aero-engines for the propulsion of the weapons enumerated in numbers 7 to 9

II. Combat Aircraft and Helicopters

13. Combat aircraft having at least one of the following features:
1. integrated weapon system equipped particularly with target acquisition, firing control and relevant interfaces for avionics,
 2. integrated electronic armaments
 3. integrated electronic combat system
14. Combat helicopters having at least one of the following features:
1. integrated weapon system equipped particularly with target acquisition, firing control and relevant interfaces for avionics
 2. integrated electronic armaments
 3. integrated electronic combat system
15. Cells for the weapons enumerated in numbers 13 and 14

16. Jet, turboprop and rocket engines for the weapons referred to in number 13

III. Vessels of War and Special Naval Equipment

17. Vessels of war, including those for military training

18. Submarines

19. Small vessels with a speed of more than 30 knots, equipped with offensive weapons

20. Mine sweeping boats, mine hunting boats, mine layers, mine breakers as well as other mine combat boats

21. Landing crafts, landing vessels

22. Tenders, ammunition transporters

23. Hulls for the weapons specified in numbers 17 to 22

IV. Combat Vehicles

24. Combat tanks

25. Other armored combat vehicles, including combat-supporting armored vehicles

26. Any type of special vehicles exclusively designed for the use of weapons specified in numbers 1 to 6

27. Carriages for the weapons enumerated in numbers 24 and 25

28. Turrets for combat tanks

V. Barrel Weapons

29. a) Machine guns, except those with water cooling;*)

b) machine pistols, except those introduced as a model in a military armed force before September 1, 1939;*)

c) fully automatic rifles, except those introduced as a model in a military armed force before September 2, 1945;*)

d) semiautomatic rifles, except those introduced as a model in a military armed force before September 2, 1945, and rifles for hunting and sporting purposes*)

30. Machine guns, rifles, pistols for combat grenades

31. Cannons, howitzers, any kind of mortars

32. Automatic cannons

33. Armored self-propelled guns for the weapons enumerated in numbers 31 and 32

34. Barrels for the weapons referred to in numbers 29, 31 and 32

35. Breech blocks for weapons referred to in numbers 29, 31 and 32

36. Revolving breeches for automatic cannons

VI. Light Anti-tank Weapons, Military Flame Throwers, Mine-laying and Mine-throwing Systems

37. Recoilless, unguided, portable anti-tank weapons

38. Flame throwers

39. Mine-laying and mine-throwing systems for land mines

VII. Torpedoes, Mines, Bombs, Autonomous Ammunition

40. Torpedoes

41. Torpedoes without warheads (explosive)
42. Torpedo bodies (torpedoes without warhead – explosive – and without target detection device)
43. Mines of all types
44. Bombs of all types including water bombs
45. Hand flame cartridges
46. Hand grenades
47. Infantry explosive devices, adhesive and hollow charges as well as mine-sweeping devices
48. Explosive charges for the weapons referred to in number 43

VIII. Other Ammunitions

49. Ammunition for the weapons listed in numbers 31 and 32
50. Ammunition for the weapons listed in number 29, subparagraphs a), c) and d), except cartridge ammunition having a soft core projectile with full casing, if the projectile does not contain any accessories, particularly a flare, incendiary or explosive charge, and where cartridge ammunition of the same caliber is used for hunting and sporting purposes
51. Ammunition for weapons referred to in number 30
52. Ammunition for the weapons listed in numbers 37 and 39
53. Rifle grenades
54. Projectiles for the weapons enumerated in numbers 49 and 55
55. Propelling charges for the weapons specified in numbers 49 and 52

IX. Other Essential Components

56. War heads for the weapons listed in numbers 7 to 9 and 40
57. Ignition charges for the weapons listed in numbers 7 to 9, 40, 43, 44, 46, 47, 49, 51 to 53 and 59, except propellant charge ignitors
58. Target detection heads for the weapons enumerated in numbers 7, 9, 40, 44, 49, 59, 60
59. Submunition for the weapons listed in numbers 7 to 9, 44, 49 and 61
60. Submunition without ignition for the weapons referred to in numbers 7 to 9, 44, 49 and 61

X. Dispensers

61. Dispensers for the systematic distribution of submunition

XI. Laser Weapons

62. Laser weapons specially designed for causing permanent blindness