

Licencing Requirements for Class 1 Explosives

Table 1: Substances Requiring a Controlled Substances Licence		
Class	UN Number	Explosive Description
1.1A	UN0114	Guanyl nitrosaminoguanyltetrazene (Tetrazene) wetted with not less than 30% (by mass) being water or a mixture of alcohol and water.
	UN0129	Lead azide wetted with not less than 20% (by mass) being water or a mixture of alcohol and water
	UN0130	Lead styphnate (lead trinitroresorcinate) wetted with not less than 20% (by mass) being water or a mixture of alcohol and water.
	UN0135	Mercury fulminate wetted with not less than 20% (by mass) being water or a mixture of alcohol and water.
1.1D	UN0150	Pentaerythrite tetranitrate (pentaerythritol tetranitrate; PETN) wetted with not less than 25% (by mass) being water, or Pentaerythrite tetranitrate (pentaerythritol tetranitrate; PETN), desensitized with not less than 15% (by mass) being phlegmatizer.
	UN0154	Picric acid – trinitrophenol.
	UN0208	Trinitrophenylmethylnitramine(tetryl).
	UN0209	Trinitrotoluene (TNT).
	UN0027	Black powder (gunpowder). Meal or granular. Substance consisting of a mixture of charcoal, potassium nitrate, and sulphur
1.1D type A	UN0081	Blasting explosives, Type A. Substances consisting of liquid organic nitrates such as nitroglycerin or a mixture of such ingredients with 1 or more of the following, nitrocellulose; ammonium nitrate or other inorganic nitrates; or aromatic nitro-derivatives, or combustible materials, such as wood-meal and aluminium powder.
	UN0081	Blasting explosives, Type A (permitted).
1.1D type B	UN0082	Blasting explosives, Type B. Substances consisting of a mixture of ammonium nitrate, sodium nitrate, and trinitrotoluene, with or without other substances such as wood-meal and aluminium powder.
	UN0082	Blasting explosives, Type B. Substances consisting of a mixture of ammonium nitrate and fuel oil with or without aluminium powder.
1.1D type D	UN0084	Blasting explosives, Type D. Substances consisting of a mixture of organic nitrated compounds and combustible materials such as hydrocarbons and aluminium powder. These explosives must not contain nitroglycerin, similar liquid organic nitrates, chlorates, or ammonium nitrate.
1.1D type E	UN0241	Blasting explosives, Type E. Substances consisting of water as an essential ingredient and high proportions of ammonium nitrate or other oxidizers, some or all of which are in solution. The other constituents may include nitro-derivatives such as trinitrotoluene, hydrocarbons or aluminium powder, stabilizers and plasticizers, glass micro-balloons, and different oil blends.
1.5D type E	UN0332	Blasting explosives, Type E. Substances consisting of water as an essential ingredient and high proportions of ammonium nitrate or other oxidizers, some or all of which are in solution. The other constituents may include nitro-derivatives such as trinitrotoluene, hydrocarbons, or aluminium powder.

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Class	UN Number	Explosive Description NEQ (kgs)
1.1B	UN0029	Detonators, non-electric for blasting. Articles consisting of a small metal or plastics tube containing explosives such as lead azide, PETN, or combinations of explosives. They are designed to start a detonation train. They may be constructed to detonate instantaneously, or may contain a delay element.
	UN0030	Detonators, electric for blasting. Articles consisting of a small metal or plastics tube containing explosives such as lead azide, PETN, or combinations of explosives. They are designed to start a detonation train. They may be constructed to detonate instantaneously, or may contain a delay element.
	UN0030	Detonators, electric for blasting (permitted). Articles consisting of a small metal or plastics tube containing explosives such as lead azide, PETN, or combinations of explosives. They are designed to start a detonation train. They may be constructed to detonate instantaneously, or may contain a delay element.
1.1B/ 1.4B	UN0030/ 0255	Detonators, electric for blasting as listed below. Articles consisting of a small metal or plastics tube containing explosives such as lead azide, PETN, or combinations of explosives. They are designed to start a detonation train. They may be constructed to detonate instantaneously, or may contain a delay element.
1.1B/ 1.4S	UN0030/ 0456	Detonators, electric for blasting. Articles consisting of a small metal or plastics tube containing explosives such as lead azide, PETN, or combinations of explosives. They are designed to start a detonation train. They may be constructed to detonate instantaneously, or may contain a delay element.
1.1B	UN0360	Detonator assemblies, non-electric for blasting. Non-electric detonators assembled with, and activated by, such means as safety fuse, shock tube, flash tube, or detonating cord. They may be of instantaneous design or incorporate delay elements. Detonating relays incorporating detonating cord are included. Other detonating relays are included in detonators, non-electric UN 0029.
1.1D	UN0042	Boosters without detonator. Articles consisting of a plastic or cardboard shell filled with a mixture of PETN and TNT (Pentolite) and the following optional ingredients, RDX, ammonium nitrate, sodium nitrate, potassium nitrate, barium sulphate, plasticisers, and other insert materials.
	UN0048	Charges, demolition. Articles containing a charge of a detonating explosive in a casing of fibreboard, plastics, metal or other material.
	UN0059	Charges, shaped, without detonator. Articles consisting of a casing containing a charge of detonating explosive with a cavity lined with rigid material, without means of initiation. They are designed to produce a powerful, penetrating jet effect.
1.1D/ 1.4S	UN0059/ 0349	Charges, shaped, without detonator.
	UN0059/ 0041	Charges, shaped, without detonator.
1.1D	UN0065	Cord, detonating, flexible. Article consisting of a core of detonating explosive enclosed in spun fabric, with plastics or other covering unless the spun fabric is sift proof.
1.1D/ 1.4D	UN0065/ 0289	Cord, detonating, flexible. Article consisting of a core of detonating explosive enclosed in spun fabric, with plastics or other covering unless the spun fabric is sift proof.
1.1D/ 1.4S	UN0065/ 0349	Cord, detonating, flexible. Article consisting of a core of detonating explosive enclosed in spun fabric, with plastics or other covering unless the spun fabric is sift proof.

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Class	UN Number	Explosive Description
1.1D	UN0288	Charges, shaped, flexible, linear. Articles consisting of a V-shaped core of a detonating explosive clad by a flexible metal sheath.
1.1D/ 1.4D	UN0290/ 0289	Cord (fuse), detonating, metal clad/cord, detonating, flexible. Article consisting of a core of detonating explosive clad by a soft metal tube with or without protective covering.
1.1G	UN0333	Fireworks. Display pyrotechnics designed for entertainment and not covered by the Hazardous Substances (Fireworks) Regulations 2001: Bouquets, coloured fires and lights, crackers, fountains, gerbs, lances, maroons, mines, port fires, rockets, roman candles, saxons, scintillettes, serpents, squibs (with or without reports), tourbillions, wheels, and other manufactured fireworks, being in each case fireworks intended for display or entertainment purposes.
1.2C	UN0328	Cartridges for weapons, inert projectile. Ammunition consisting of a projectile without a bursting charge but with a propelling charge.
1.2G	UN0314	Igniters. Articles containing 1 or more explosive substances used to start deflagration in an explosive train. They may be actuated chemically, electrically, or mechanically.
	UN0334	Fireworks. Display pyrotechnics designed for entertainment and not covered by the Hazardous Substances (Fireworks) Regulations 2001: Bouquets, coloured fires and lights, crackers, fountains, gerbs, lances, maroons, mines, port fires, rockets, roman candles, saxons, scintillettes, serpents, squibs (with or without reports), tourbillions, wheels, and other manufactured fire works, being in each case fireworks intended for display or entertainment purposes.
1.3C	UN0186	Rocket motors. Articles consisting of a solid, liquid, or hypergolic fuel contained in a cylinder fitted with 1 or more nozzles.
	UN0277	Cartridges, oil well. Articles consisting of a casing of thin fibre, metal, or other material, and containing only propellant that projects a hardened projectile.
1.3G	UN0101	Fuse, instantaneous non-detonating (Quickmatch). Articles consisting of cotton yarns impregnated with a fine black powder.
	UN0335	Fireworks. Display pyrotechnics designed for entertainment and not covered by the Hazardous Substances (Fireworks) Regulations 2001: Bouquets, coloured fires and lights, crackers, fountains, gerbs, lances, maroons, mines, port fires, rockets, roman candles, saxons, scintillettes, serpents, squibs (with or without reports), tourbillions, wheels, and other manufactured fire works, being in each case fireworks intended for display or entertainment purposes.
	UN0430	Articles, pyrotechnic (for technical purposes). Articles that contain pyrotechnic substances and are used for technical purposes such as heat generation, gas generation, theatrical effects, and the like.
1.1D/ 1.4D	UN0442/ 0444	Charges, explosive, commercial without detonator. Articles consisting of a charge of detonation explosive without means of initiation, used for explosive welding, jointing, forming and other metallurgical processes
1.3G	UN0448	Ammunition, practice. Ammunition without a main bursting charge, containing a burster or expelling charge. Normally, it also contains a fuse and a propelling charge.
1.4B	UN0255	Detonators, electric for blasting as listed below. Articles consisting of a small metal or plastics tube containing explosives such as lead azide, PETN, or combinations of explosives

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Class	UN Number	Explosive Description
1.4B	UN0257	Fuses, detonating. Articles designed to start a detonation or a deflagration in ammunition. They incorporate mechanical, electrical, chemical, or hydrostatic components and generally protective features.
	UN0361	Detonator assemblies, non-electric (for blasting) as listed under UN 0360 detonator assemblies, 1.1B. Articles consisting of a small metal or plastic tube containing explosives such as lead azide, PETN, or combinations of explosives.
1.4C	UN0276	Cartridges, power device. Articles consisting of a casing with a charge of deflagrating explosive and a means of ignition.
	UN0338	Cartridges for weapons, blank or cartridges, small arms, blank. Articles that consist of a cartridge case with a centre or rim fire primer and a confined charge of smokeless or black powder but no projectile. Used for training, saluting, and in starter pistols, and the like.
	UN0339	Cartridges for weapons, inert projectile or cartridges, small arms. Ammunition consisting of a projectile without a bursting charge but with a propelling charge.
1.4D	UN0410	Fuses, detonating with protective features. Articles designed to start a detonation or a deflagration in ammunition. They incorporate mechanical, electrical, chemical, or hydrostatic components and generally protective features.
1.4E	UN0412	Cartridge for weapons with bursting charges. Fixed (assembled) or semi-fixed (partially assembled) ammunition designed to be fired from weapons. Each cartridge includes all the components necessary to function the weapon once. The name and description must be used for small arms cartridges that cannot be described as cartridges, small arms. Separate loading ammunition is included under this name and description when the propelling charge and projectile are packed together.
1.4G	UN0066	Cord, igniter. Article consisting of textile yarns covered with black powder or another fast burning pyrotechnic composition and with a flexible protective covering, or it consists of a core of black powder surrounded by a flexible woven fabric.
	UN0297	Ammunition, illuminating with or without burster, expelling charge, or propelling charge. Ammunition designed to produce a single source of intense light for lighting up an area.
	UN0301	Ammunition, tear-producing, as listed below. Ammunition containing toxic agent. It also contains 1 or more of the following, a pyrotechnic substance, a propelling charge with primer and igniter charge, a fuze with burster or expelling charge.
	UN0303	Ammunition, smoke with or without burster, expelling charge, or propelling charge (other than water-activated ammunition with white phosphorus or phosphides)
	UN0320	Primers, tubular. Articles consisting of a primer for ignition and an auxiliary charge of deflagrating explosive such as black powder used to ignite the propelling charge in a cartridge case for cannon, and the like.
	UN0325	Igniters. Articles containing 1 or more explosive substances used to start deflagration in an explosive train.
	UN0336	Fireworks. Display pyrotechnics designed for entertainment and not covered by the Hazardous Substances (Fireworks) Regulations 2001: Bouquets, coloured fires and lights, crackers, fountains, gerbs, lances, maroons, mines, port fires, rockets, roman candles, saxons, scintillettes, serpents, squibs (with or without reports), tourbillions, wheels, and other manufactured fireworks, being in each case fireworks intended for display or entertainment purposes

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1.4G	UN0362	Ammunition, practice. Ammunition without a main bursting charge, containing a burster or expelling charge. Normally, it also contains a fuze and a propelling charge.
	UN0431	Articles, pyrotechnic (for technical purposes). Articles that contain pyrotechnic substances and are used for technical purposes such as heat generation, gas generation, theatrical effects, etc.
1.4S	UN0105	Fuse, safety. Article consisting of a core of fine grained black powder (typically 65% potassium nitrate, 24% sulphur, and 11% carbon), 5 grams/metre surrounded by a flexible woven fabric with 1 or more protective outer coverings (bitumen, plastic, or yarn and wax). In some cases, sodium nitrate may be substituted for potassium nitrate.
	UN0131	Lighters, fuse. Articles of various designs actuated by friction, percussion, or electricity and used to ignite safety fuse.
	UN0337	Fireworks. Display pyrotechnics designed for entertainment and not covered by the Hazardous Substances (Fireworks) Regulations 2001: Bouquets, coloured fires and lights, crackers, fountains, gerbs, lances, maroons, mines, port fires, rockets, roman candles, saxons, scintillettes, serpents, squibs (with or without reports), tourbillions, wheels, and other manufactured fire works, being in each case fireworks intended for display or entertainment purposes.
	UN0349	Articles, explosive, N.O.S. (not otherwise specified).
	UN0432	Articles, pyrotechnic (for technical purposes). Articles that contain pyrotechnic substances and are used for technical purposes such as heat generation, gas generation, theatrical effects, and the like.
1.3C	UN0499	Propellants. Solid substances consisting of a deflagrating solid explosive used for propulsion. Note for exception see Table 2 below.
1.1C/ 1.3C	UN0160/ UN0161 ^b	Smokeless powder (single base, double base, triple base). Note for exception see Table 2 below.

Table 2: Substances <u>not</u> requiring a Controlled Substances Licence.		
1.1D	UN0027	Gunpowder only in amounts of less than 15 kg provided the person has a firearms licence
1.1C/ 1.3C	UN0160/UN0161	Smokeless powder (single base, double base, triple base), provided the person has a firearms licence
1.3C	UN0499	Propellants (solid substances consisting of a deflagrating solid explosive used for propulsion), provided the person has a firearms licence
1.3G, 1.4G, & 1.4S	UN0335, UN0336, UN0337	Fireworks in classes that are subject to the Hazardous Substances (Fireworks) Regulations 2001
1.4G & 1.4S	UN0349, UN0432	Model Rocket Motors
1.4G & 1.4S	UN0503	Airbag initiators and seatbelt pre-tensioners
1.4G	UN0317	Igniting fuses
1.4S	UN0012, UN0014, UN0044, UN0055	Safety Ammunition , including pre-primed cartridges and primers,
1.4S	UN0070	Cable cutters
1.4S	UN0323	Power Device Cartridges
1.4S	UN0349	Signal or shock tubes
1.4S	UN0432	Cassette degradation devices
1.4S	UN0454	Igniters
1.2G, 1.3G, 1.4G & 1.4S	UN0092, UN0195, UN0191, UN0197, UN0312, UN0373, UN0405, UN0419, UN0421	Emergency flares and signaling devices
1.4S	UN0192/UN0193	Signals, railway track , explosive. Articles containing pyrotechnic substances designed to produce signals by means of sound, flame, or smoke, or any combinations of them.
1.2G	UN0238	Rockets, line throwing