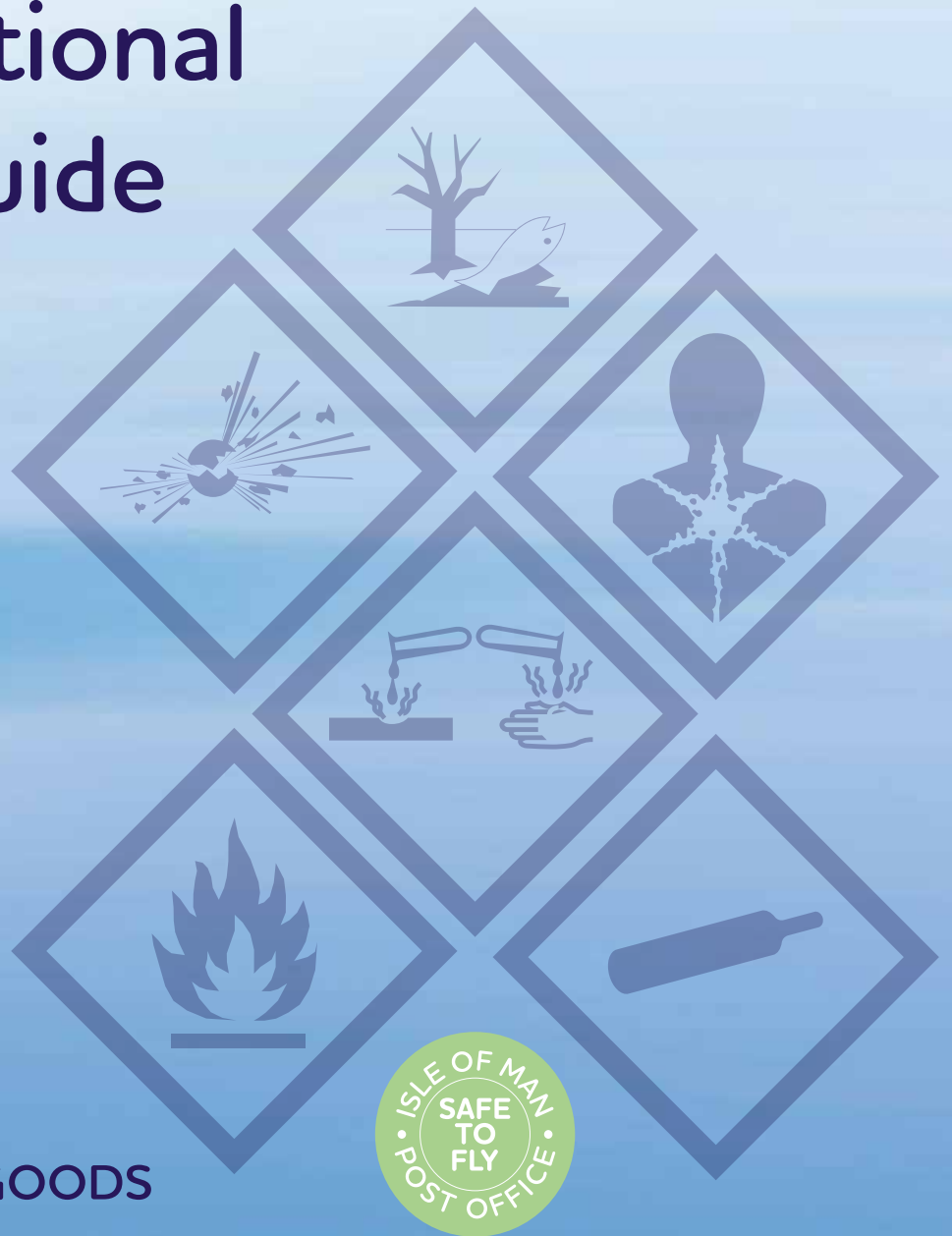


Prohibitions and Restrictions in UK and International Post Guide



DANGEROUS GOODS

2021/22 Guide

Isle of Man
Post Office
Oik Postagh Ellan Vannin

iompost.com

Are you posting safely?

Isle of Man Post Office restricts or prohibits certain items entering the postal system for several reasons:

- To comply with transport legislation
- To protect the health, safety and wellbeing of our employees and customers
- To ensure that mail in transit does not present a danger to the general public

What are prohibitions and restrictions?

Dangerous goods are articles or substances that are capable of posing a risk to health, safety, property or the environment. Existing regulations prohibit sending nearly all dangerous goods in the mail. Prohibited items (such as explosives and corrosive liquids) must NEVER be sent in the post.

UK and International post

A set of technical instructions have been published by the International Civil Aviation Organisation (ICAO) which refers to articles classed as Dangerous Goods. These technical instructions are for the safe transport of dangerous goods by air and Isle of Man Post Office will enforce the regulations through numerous acceptance methods. Within this guide we have used these regulations to create a more user friendly list of any dangerous goods that can/cannot be sent in the mail. Specific country restrictions may apply, please check these before posting any item. All processes and procedures Isle of Man Post Office implement are checked for compliance by the Isle of Man Civil Aviation Administration.

What will happen if I ignore the rules?

Failure to comply with the legal requirements for the transport of dangerous goods puts lives at risk and is a criminal offence, which may be subject to prosecution. If you send dangerous goods and do not comply with the applicable terms and conditions then Isle of Man Post Office may deal with the goods as it sees fit, including destroying or disposing of the relevant items.

What should I do next?

Please refer to this guide and the relevant terms and conditions before packaging or posting any items to ensure you meet minimum safety requirements. It is your responsibility to check the list of prohibited and restricted items and any applicable packaging, volume, quantity and labelling requirements that apply prior to posting any item.

Please note if you are posting at a counter an item will have a safe to fly sticker attached.

Not sure?

Our customer service team, collections staff and counter staff will be able to advise you before you send, so please ask if you're not sure. Located in all Isle of Man Post Office branches are a range of posters on display which will demonstrate what is restricted. If in doubt do not send it.

Recent changes to restricted items

Item	Royal Mail	Parcelforce	New rules for all customers
Human or Animal Ashes	Can now be sent UK and International	Prohibited	<ul style="list-style-type: none"> • Volume per item must not exceed 50g • Ashes must be placed in a sift-proof container and securely closed • Must be in strong outer packaging.
Prescription medicines and drugs sent for scientific or medical purposes (Toxic, Flammable or Toxic & Flammable)	UK only. No longer accepted by International Mail.	Prohibited	<ul style="list-style-type: none"> • Inner packaging can be blister packs of tablets or capsules of liquid • Each pack not to exceed 50ml/50g per tablet or capsule • Bottles of liquid not to exceed 50ml
Live creature, insects and invertebrates	Accepted	Prohibited	MUST be boxed and packaged to protect the creatures, our staff and our customers from harm.
Perishables (Page 13)	UK only	Accepted via Global Priority for international packages	Dry ice forbidden
Smart Luggage (item of luggage with an internal Lithium battery for charging personal electronic devices)	Prohibited	Prohibited	Can not be sent due to battery pack.

Examples of Smart Luggage:



Regulations and Governing Bodies

All of our mail leaves the Island by air which means all mail is required to be safe to fly and has to be x-rayed before it can be put on board our aircraft.

On Island, Isle of Man Post Office is regulated by the Isle of Man Civil Aviation Administration (IOM CAA), they ensure that the Isle of Man Post Office is compliant with all of its systems and procedures. In house training has been given to staff in direct contact with outgoing mail to give them the much needed information on the importance of dangerous goods and which items we do not accept through our network.

All training is based on the International Civil Aviation Organisation (ICAO) technical instructions.



Packing Guidelines

Senders name and address must be clearly visible on any sent parcel.



Remember!
Special conditions and packaging rules apply when sending certain items to UK and international destinations. See item specific packaging from page 7.



We do not accept...

Reused dangerous goods packaging.

Any box with a dangerous goods sticker on the outside of the box will not be accepted.



Addressing Standards

Addressing your mail items properly helps ensure they arrive quickly and safely. These guidelines show the best way to address your mail for fast delivery in the UK and abroad.

Addressing your item


- The full and accurate name and address go on the bottom left corner of the front of the envelope or parcel.
- Use a clear and easy to read hand writing (or font if you are printing the address).
- Use a pen or ink that is clear against the colour of the envelope or parcel.
- Left align the text (no centred or 'stepped' lines).
- No commas or full stops.
- Leave a generous margin around the address.
- Place the correct postage on the top right.
- Include a return address on the back, so if for any reason your item can't be delivered it can be sent back to you.

Sending mail to an international destination

Additional to the above, when sending mail to a location outside of the UK you must also:

- Include the addressee's country name in capital letters.
- Leave a generous margin around the address.
- Use an Airmail sticker.

UK Mail




Miss S Pollard
1 Chapel Hill
Heswall
BOURNEMOUTH
BH1 1AA

Line 1
Line 2
Line 3
Line 4
Line 5

- Line 1:** Addressee's name
Line 2: Building and street or road name
Line 3: Locality name if required
Line 4: Post town: please print in CAPITALS
Line 5: Postcode: please print in CAPITALS, in full and on a separate line

International Mail



BY AIR MAIL
per kilo

Sr. Fernandez
Av Das A'Augsa Livres
Monte Trigo
7220 Portel
PORTUGAL

Line 1
Line 2
Line 3
Line 4
Line 5

- Line 1:** Addressee's name
Line 2: Building and street or road name
Line 3: Place name
Line 4: Name of province state, department and postal code (if appropriate)
Line 5: Name of country in CAPITALS

Note: You may be required to fill in a customs declaration for any item that is destined for a destination outside of the UK.

Lithium Ion Batteries

Lithium Ion batteries are the leading risk to an aircraft. There have been numerous reported incidents involving lithium batteries not only when associated with air travel. Due to the vast variety of different lithium batteries that are used in our day to day devices the ICAO has included such batteries in its technical instructions.

Please use the information below to identify whether your item can be accepted by Isle of Man Post Office.



Lithium Ion batteries contained in equipment (UN3481)

Lithium Metal batteries contained in equipment (UN3091)

If the device has the battery enclosed within the unit itself and it has not been removed, replaced or tampered with then this can be accepted. e.g. laptop, tablet, mobile phone.



Lithium Ion batteries packed with equipment (UN3481)

Lithium Metal batteries packed with equipment (UN3091)

A device is allowed to be mailed with the battery that is within it, plus two spares. The two spare batteries must belong with the device, for example a drill and a spare battery. If the device is supposed to have a spare with it, that would be deemed as acceptable.

If you have a mobile phone and a phone battery next to it, this would not be deemed as acceptable as no mobile phone would usually come with a spare battery.

External batteries are NOT allowed to be posted to international destinations. e.g. drill.

Note: Isle of Man Post office does not accept ANY Lithium Ion/Metal battery sent on its own out of its intended device. We have to assume that the battery could potentially be faulty.

AS OF ICAO 17/18

 **UK**
 **International**

Example





















































Guide to Prohibited and Restricted items






The sender's name and return address must be clearly visible on the outer packaging.








	Aerosols	p8		Infectious substances	p11
	Alcoholic beverages	p8		Lighters & refills	p12
	Ammunition	p8		Liquids over 1 litre	p12
	Batteries	p8		Live creatures	p12
	Biological substances	p9		Magnetized material	p12
	Clinical and medical waste	p9		Matches	p12
	Controlled drugs and narcotics	p9		Nail varnish, polish or gel	p12
	Corrosives	p9		Oxidising materials	p13
	Electronic devices	p10		Perfumes & aftershaves	p13
	Environmentally hazardous	p10		Perishables	p13
	Explosives	p10		Pesticides	p13
	Flammable liquids	p11		Poisons	p13
	Flammable solids	p11		Prescription medicines	p13
	Gases	p11		Radioactive materials	p14
	Guns for sporting use	p11		Solvent based paint	p14
	Hoverboards	p11		Waste	p14
	Human or animal ashes	p11		Weapons	p14
	Human or animal samples	p11			
















	<p>Aerosols for toiletry or medicinal purposes Including deodorants, body sprays, hair sprays, shaving and hair removal creams and medicinal aerosols for prevention or cure such as flea sprays.</p> <p>Packaging guidelines: Valves must be protected to prevent inadvertent release of the contents. Volume per item must not exceed 500ml. No more than two items in any one parcel, tightly packed.</p> <p>  UK Destinations  International Destinations </p>
	<p>Aerosols for any other purpose Including spray paints, air fresheners, etc</p> <p>  UK Destinations  International Destinations </p>
	<p>Alcoholic beverages containing more than 70% ABV</p> <p>  UK Destinations  International Destinations </p>
	<p>Alcoholic beverages containing more than 24% but less than 70% ABV e.g. Gin, Rum, Vodka, Whisky</p> <p>Packaging guidelines: Volume must not exceed 1 litre per item. No more than two items in any one parcel. Wrap in polythene and seal with tape, surround with absorbent material and cushioning to prevent breakage. Mark as 'Fragile' when sending glass bottles. Must be presented at the counter.</p> <p>  UK Destinations  International Destinations </p>
	<p>Alcoholic beverages containing 24% ABV or less e.g. Beer, Wine and Champagne</p> <p>Packaging guidelines: Volume per item must not exceed 1 litre. Wrap in polythene and seal with tape. Surround with absorbent material and cushioning to prevent breakage. Mark as 'Fragile' when sending glass bottles.</p> <p>  UK Destinations  International Destinations </p>
	<p>Ammunition Excluding lead pellets and other air gun and airsoft projectiles.</p> <p>  UK Destinations  International Destinations </p>
	<p>Batteries that are classified as dangerous goods and certain used batteries Including wet spillable lead acid/lead alkaline batteries (such as car batteries), used alkaline metal, nickel metal hydride (NiMH), nickel cadmium (NiCd), zinc-air batteries, solo lithium batteries, power banks and damaged batteries of any type.</p> <p>  UK Destinations  International Destinations </p>
















	<p>Batteries, specifically new alkaline metal, nickel metal hydride (NiMH), nickel cadmium (NiCd), zinc-air and zinc chloride</p> <p>Packaging guidelines: Must be new and sent unopened in their original retail packaging. Surround with cushioning material such as bubble wrap.</p> <p>  UK Destinations  International Destinations </p>
	<p>Batteries, specifically new and used lithium batteries when not sent with or connected to an electronic device (including power banks)</p> <p>  UK Destinations  International Destinations </p>
	<p>Batteries: new wet, non-spillable (maximum weight 1.5kg) e.g. sealed lead acid batteries, absorbed glass mat and gel cell batteries</p> <p>More information: Special Provision A67 states: A67 Non-spillable batteries meeting the requirements of Packing Instruction 806 are not subject to these Instructions if, at a temperature of 55°C, the electrolyte will not flow from a ruptured or cracked case. The battery must not contain any free or unabsorbed liquid. When packaged for transport, the terminals must be protected from short circuit such as by the use of non-conductive caps that entirely cover the terminals.</p> <p>Packaging guidelines: No more than one battery in any one parcel. Item must be protected against short circuit (by insulation of exposed terminals) and securely packaged. Package must be marked 'NOT RESTRICTED' and SPA67 / SP238</p> <p>  UK Destinations  International Destinations </p>
	<p>Biological substances Diagnostic specimens including urine, blood, faeces and animal remains.</p> <p>More information: Substances listed under UN3373 are accepted (Category B) Any Biological substances listed in Category A are FORBIDDEN</p> <p>Packaging guidelines: The total sample volume/mass in any parcel must not exceed 50ml/50g. All biological substances must be posted in packaging that complies with packaging instruction 650, such as our Safebox product.</p> <p>  UK Destinations  International Destinations </p>
	<p>Clinical and medical waste e.g. contaminated dressings, bandages and needles</p> <p>  UK Destinations  International Destinations </p>
	<p>Controlled drugs and narcotics e.g. cannabis, cocaine, heroin, LSD, opium and amyl nitrate</p> <p>  UK Destinations  International Destinations </p>
	<p>Corrosives Including dyes, acids, corrosive paint and rust removers, caustic soda, mercury and gallium metal</p> <p>  UK Destinations  International Destinations </p>

	<p>Electronic devices sent with lithium batteries (including mobile phones, digital cameras etc) - Where the battery is NOT connected to the device but is packed with equipment</p>
<p>Packaging guidelines: The maximum number of lithium batteries allowed in each parcel is the minimum number required to power the device plus two spare "sets" of batteries. A "set" of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment.</p>	
<p>For lithium-ion/polymer batteries, the Watt-hour rating must not exceed 20Wh per cell or 100Wh per battery. For lithium metal/alloy batteries, the lithium content must not be more than 1g per cell or 2g per battery. The maximum net quantity of cells or batteries is 5kg per parcel. Each cell and battery must be of a type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, Section 38.3. Cells or batteries that are defective or damaged are forbidden. Cells and batteries must be packed in strong rigid packaging and must be secured against movement within the outer packaging and packed to prevent accidental activation.</p>	
<p> ✔ UK Destinations ✘ International Destinations </p>	
	<p>Electronic devices sent with lithium batteries (including mobile phones, digital cameras, etc) - Where the battery IS connected to the device</p>
<p>Packaging guidelines: Each parcel must contain no more than four cells or two batteries installed in a device. For lithium-ion / polymer batteries, the Watt-hour rating must not exceed 20Wh per cell or 100Wh per battery. For lithium metal/alloy batteries, the lithium content must not be more than 1g per cell or 2g per battery. The maximum net quantity of cells or batteries is 5kg per parcel. Each cell and battery must be of a type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, section 38.3. Cells or batteries that are defective or damaged are forbidden. Cells and batteries must be packed in strong rigid packaging and must be secured against movement within the outer packaging and packed to prevent accidental activation.</p>	
<p> ✔ UK Destinations ✔ International Destinations </p>	
	<p>Environmentally hazardous substances</p>
<p>Packaging guidelines: Samples must not exceed 5 litres / 5 kgs. Pack in a leak proof or sift proof inner and protect by cushioning material in rigid outer packaging.</p>	
<p> ✔ UK Destinations ✘ International Destinations </p>	
	<p>Environmental waste Including used batteries and used engine oil</p>
<p> ✘ UK Destinations ✘ International Destinations </p>	
	<p>Explosives Including fireworks, flares blasting caps, party poppers</p>
<p> ✘ UK Destinations ✘ International Destinations </p>	
	<p>Flammable liquids Including petroleum, lighter fluid, certain adhesives, solvent-based paints, wood varnishes, enamels, acetone and all nail varnish removers</p>
<p> ✘ UK Destinations ✘ International Destinations </p>	

	<p>Flammable solids Including magnesium, phosphorous, potassium, sodium, zinc powder and fire lighters</p> <p>UK Destinations International Destinations</p>
	<p>Gases, including flammable, non-flammable, toxic and compressed gases e.g. new, used and empty gas cylinders, ethane, butane, refills for lighters, fire extinguishers, life jackets, nitrogen dioxide and carbon dioxide canisters including culinary foaming devices and soda stream</p> <p>UK Destinations International Destinations</p>
	<p>Guns for sporting use Section 1 and Section 2 firearms, low powered air weapons and their component parts</p> <p>Packaging guidelines: May be sent in compliance with UK law and subject to any applicable controls on the possession of firearms. Only accepted by Parcelforce and must be sent using express48 via the Post Office. Sender's name and address must be visible on the parcel.</p> <p>UK Destinations International Destinations</p>
	<p>Hoverboards Including any type of rechargeable battery powered; self-balancing scooter, mono wheel, stand up unicycle or electric skateboard</p> <p>UK Destinations International Destinations</p>
	<p>Human or animal ashes</p> <p>Packaging guidelines: Volume per item must not exceed 50g. Ashes must be placed in a sift proof container and securely closed. Items must be tightly packed in strong outer packaging and must be secured or cushioned to prevent any damage. The sender's name and return address must be clearly visible on the outer packaging. Accepted on Royal Mail services only. Prohibited by Parcelforce Worldwide.</p> <p>UK Destinations International Destinations</p>
	<p>Human or Animal Samples May only be sent by, or at the specific request of, a qualified medical practitioner, registered dental practitioner, veterinary surgeon, registered nurse or a recognized laboratory or institution</p> <p>Packaging guidelines: The total sample volume/mass in any parcel must not exceed 1kg. Only solids can be sent. All human or animal samples must be posted in packaging that complies with packaging instruction 650, such as our Safebox product. Accepted on Royal Mail services only. Prohibited by Parcelforce Worldwide.</p> <p>UK Destinations International Destinations</p>
	<p>Infectious Substances and Pathogens UN2814 or UN2900, as classified in the latest edition of the ICAO Technical Instructions.</p> <p>UK Destinations International Destinations</p>

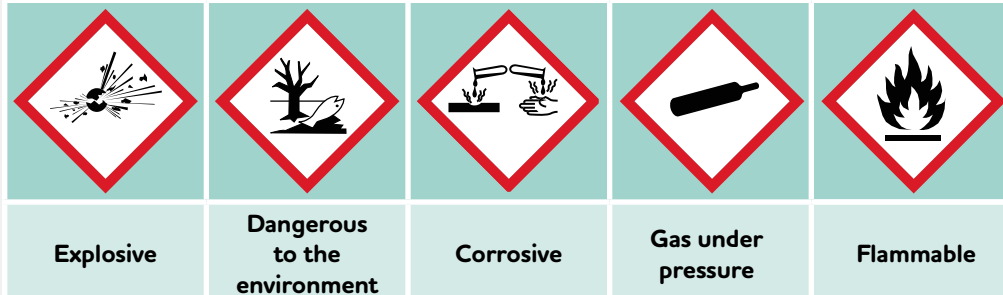
	<p>Lighters and Refills containing flammable liquid or gas Including used butane, petrol cigar and cigarette lighters</p> <p>UK Destinations International Destinations</p>
	<p>Liquids OVER 1 litre Containing liquids not classified as dangerous goods</p> <p>Packaging guidelines: Items must be securely closed and placed in a leak-proof inner liner, such as a sealed polythene bag and in a leak-proof outer. Mark as 'FRAGILE' when sending glass bottles. Customers posting via Parcelforce Worldwide, maximum 5 litres per box per container, must be sent using express48.</p> <p>UK Destinations International Destinations</p>
	<p>Liquids UNDER 1 litre Containing liquids not classified as dangerous goods</p> <p>Packaging guidelines: Items must be securely closed and placed in a leak-proof inner liner, such as a sealed polythene bag and in a leak-proof outer. Mark as 'FRAGILE' when sending glass bottles.</p> <p>UK Destinations International Destinations</p>
	<p>Live creatures, insects and invertebrates Including Bees, Spiders and some other Insects</p> <p>Packaging guidelines: Must be boxed and packaged to protect the creatures, our staff and our customers from harm. Use 1st class as a minimum service. Items must be clearly marked "URGENT – Living Creatures – Handle with Care". Accepted on Royal Mail services only. Prohibited by Parcelforce Worldwide.</p> <p>UK Destinations International Destinations</p>
	<p>Magnetized material With field strength of 0.418A/metre or more at a distance of 4.6 metres from the outside of the package</p> <p>UK Destinations International Destinations</p>
	<p>Matches Including safety matches</p> <p>UK Destinations International Destinations</p>
	<p>Nail varnish, polish or gel</p> <p>Packaging guidelines: Volume per item must not exceed 30ml. No more than four items in any one parcel. Must be placed in strong outer packaging and cushioned to prevent breakage.</p> <p>UK Destinations International Destinations</p>

	<p>Oxidising Materials or organic peroxides Including disinfectants, nitrates and hair dyes or colourants containing peroxide</p> <p> UK Destinations  International Destinations</p>
	<p>Perfumes and Aftershaves Including eau de parfum and eau de toilette</p> <p>Packaging guidelines: Volume per item must not exceed 150ml. No more than four items in any one parcel. Must be sent in its original retail packaging, placed in strong outer packaging and cushioned to prevent breakage.</p> <p> UK Destinations  International Destinations</p>
	<p>Perishables Including flowers, fresh fruit, vegetables and frozen or chilled foodstuff. Frozen water and dry ice are prohibited.</p> <p>Packaging guidelines: Use 1st Class as the minimum service. Items should be able to withstand a journey of up to 48 hours. Must be suitably sealed to prevent leakage or tainting of other items. Packages must be clearly labeled 'PERISHABLE'. Royal Mail accepts item for delivery in the UK only. Parcelforce worldwide accepts items for delivery in the UK and internationally using Global Priority service only.</p> <p> UK Destinations  International Destinations</p>
	<p>Pesticides e.g. weed killer and any chemical used to kill pests and insects including fly sprays</p> <p> UK Destinations  International Destinations</p>
	<p>Poisons, toxic liquids, solids and gases Including substances that are liable to cause death or injury if swallowed or inhaled or by skin contact; including arsenic, cyanide, fluorine, rat poison</p> <p> UK Destinations  International Destinations</p>
	<p>Prescription medicines and drugs sent for scientific or medical purposes Toxic, Flammable or Toxic and Flammable</p> <p>Packaging guidelines: Inner packaging can be blister packs of tablets or capsules of liquid (each pack not to exceed 50ml/50g per tablet/capsule), or small bottles of liquid up to 50ml. Net quantity in any parcel not to exceed 500ml/500g. Medicines must be securely closed and placed in a sealed polythene bag (for liquids) or a sift proof container (for solids). Must be tightly packed in strong outer packaging and cushioned to prevent breakage. Sender's name and address must be visible on the parcel.</p> <p> UK Destinations  International Destinations</p>

	<p>Prescription medicines and drugs sent for scientific or medical purposes Non-toxic and non-flammable, including asthma inhalers</p> <p>Packaging guidelines: Inner packaging can be blister packs of tablets or capsules of liquid (each pack not to exceed 50ml/50g per tablet/capsule), or small bottles of liquid up to 50ml. Net quantity in any parcel not to exceed 1litre/1kg. Medicines must be securely closed and placed in a sealed polythene bag (for liquids) or a sift proof container (for solids). Must be tightly packed in strong outer packaging and cushioned to prevent breakage.</p> <p>  UK Destinations  International Destinations </p>
	<p>Radioactive materials and samples (Classified as dangerous goods such as luminous dials from aircraft)</p> <p>  UK Destinations  International Destinations </p>
	<p>Solvent - based paints, wood varnishes and enamels</p> <p>  UK Destinations  International Destinations </p>
	<p>Waste, dirt, filth or refuse – including household waste Note: soil samples sent for analysis are permitted provided they are packed so that any leaks and spills are contained in the outer packaging</p> <p>  UK Destinations  International Destinations </p>
	<p>Weapons Including Section 5 Firearms, CS Gas and pepper sprays, flick knives and other knives that are banned under UK laws, Tasers and stun guns.</p> <p>  UK Destinations  International Destinations </p> <p>Note: For sporting use, items can be sent see 'Guns for sporting use' for more information.</p>

Consumer Warning Markings

Some everyday household items bear consumer warning markings, which may or may not indicate they are classified as dangerous goods. Products bearing the following consumer warning markings are classified as dangerous goods.



Note: A product bearing the “Corrosive” marking is NOT classified as dangerous goods if the signal word and hazard statement “Danger –causes serious eye damage” applies. Unless specifically permitted dangerous goods are forbidden in mail.

Dangerous Goods Labels



Class 1: Explosive

Division 1.1

Substances and articles which have a mass explosion hazard (a mass explosion is one which affects almost the entire load virtually instantaneously).



Class 1: Explosive

Division 1.2

Substances and articles which have a projection hazard but not a mass explosion hazard.



Class 1: Explosive

Division 1.3

Substances and articles which have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard.



Class 1: Explosive

Division 1.4

Substances and articles which present no significant hazard.



Class 1: Explosive

Division 1.5

Very insensitive substances which have a mass explosion hazard. The division comprises substances which have a mass explosion hazard but are so insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport.



Class 1: Explosive

Division 1.6

Extremely insensitive articles which do not have a mass explosion hazard. This division comprises articles which predominantly contain extremely insensitive substances and which demonstrates a negligible probability of accidental initiation propagation.



Class 2: Flammable gases

Division 2.1

Gases which at 20°C and a standard pressure of 101.3 kPa:

Are ignitable when in a mixture of 13% or less by volume with air or have a flammable range with air of at least 12 percentage points regardless of the lower flammable limit.



Class 2: Non-flammable, non-toxic gases

Division 2.2

Gases which are asphyxiant – gases which dilute or replace the oxygen normally in the atmosphere; or are Oxidising gases which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does or do not come under the other divisions.



Class 2: Toxic gases

Division 2.3

Gases which are known to be so toxic or corrosive to humans as to pose a hazard to health; or are presumed to be toxic or corrosive to humans because they have an LC50 value equal to or less than 5000 ml/m³ (ppm) when tested with accordance 6.2.1.3.



Class 3: Flammable liquids

Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example paints, varnishes, lacquers, etc. but not including substances otherwise classified on account of their dangerous characteristics) which gave off a flammable vapour at temperatures of not more than 60°C, closed cup test, or not more than 65.6°C, open cup test, normally referred to as the flash point.



Class 4: Flammable solids

Solids which under conditions encountered in transport, are readily combustible or may cause or contribute to fire through friction; self-reactive substances and polymerizing substances which are liable to undergo a strongly exothermic reaction; desensitized explosives which may explode if not diluted sufficiently.



Class 4: Substances liable to spontaneous combustion

Division: 4.2

Substances, which are liable to spontaneous heating under normal conditions, encountered in transport, or to heating up in contact with air, and being then liable to catch fire.



Class 4: Substances, which in contact with water, emit flammable gases

Division: 4.3

Substances, which by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.



Class 5: Oxidising substances

Division: 5.1

Substances which, in themselves are not necessarily combustible, may generally, by yielding oxygen, cause or contribute to the combustion of other material. Such substances may be contained in an article.



Class 5: Organic peroxides

Division: 5.2

Organic substances, which contain the bivalent structure and may be considered derivatives of hydrogen peroxide, where one or both of the hydrogen atoms have been replaced by organic radicals. Organic peroxides are thermally unstable substances, which may undergo exothermic, self-accelerating decomposition.



Class 6: Toxic substances

Division: 6.1

Substances liable either to cause death, injury or to harm health if swallowed, if inhaled or by skin contact.



Class 6: Infectious substances

Division: 6.2

Substances known to contain or reasonably expected to contain pathogens. Pathogens are defined as micro-organisms (including bacteria, viruses, rickettsiae, parasites, fungi) and other agents such as prions, which can cause disease in humans or animals.



Class 7: Radioactive material

Division: 7.2

For dangerous goods of Class 7, high consequence radioactive material is that with an activity equal to or greater than a transport security threshold of 3,000 A2 per single package except for the following radionuclides where the transport security threshold is given.



Class 8: Corrosive substances

Class 8 substances (corrosive substances) are substances which, by chemical action, will cause severe damage when in contact with living tissue or, in the case of leakage, will materially damage, or even destroy, other goods or the means of transport. Substances and preparations of Class 8 are divided among the three packing groups according to their degree of hazard in transport.



Lithium Battery



Miscellaneous Dangerous Goods



Packing Instruction 650 – Biological Substances

This instruction applies to UN 3373 on passenger and cargo aircraft and Cargo Aircraft Only. General Requirements Y645 to the packagings must be of good quality, strong enough to withstand the shocks and loadings normally encountered during transport, including trans-shipment between transport units and between transport units and warehouses as well as 650 any removal from a pallet or overpack for subsequent manual or mechanical handling.

Packagings must be constructed and closed so as to prevent any loss of contents that might be caused under normal conditions of transport, by vibration, or by changes in temperature, humidity or pressure. The packaging must consist of three components: (a) a primary receptacle(s); (b) a secondary packaging; and (c) a rigid outer packaging. Primary receptacles must be packed in secondary packagings in such a way that, under normal conditions of transport, they cannot break, be punctured or leak their contents into the secondary packaging. Secondary packagings must be secured in outer packagings with suitable cushioning material.

Any leakage of the contents must not compromise the integrity of the cushioning material or of the outer packaging. Packages must be prepared as follows: (a) For liquid substances: 1. The primary receptacle(s) must be leakproof and must not contain more than 1 L; 2. The secondary packaging must be leakproof; 3. If multiple fragile primary receptacles are placed in a single secondary packaging, they must be either individually wrapped or separated to prevent contact between them; 4. Absorbent material must be placed between the primary receptacle and the secondary packaging. The absorbent material, such as cotton wool, must be in sufficient quantity to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging; 5. The primary receptacle or the secondary packaging must be capable of withstanding, without leakage, an internal pressure of 95 kPa. 6. The outer packaging must not contain more than 4 L. This quantity excludes ice, dry ice or liquid nitrogen when used to keep specimens cold.

Note: The capability of a packaging to withstand an internal pressure without leakage that produces the specified pressure differential should be determined by testing samples of primary receptacles or secondary packagings. Pressure differential is the difference between the pressure exerted on the inside of the receptacle or packaging and the pressure on the outside. The appropriate test method should be selected based on receptacle or packaging type. Acceptable test methods include any method that produces the required pressure differential between the inside and outside of a primary receptacle or a secondary packaging. The test may be conducted using internal hydraulic or pneumatic pressure (gauge) or external vacuum test methods. Internal hydraulic or pneumatic pressure can be applied in most cases as the required pressure differential can be achieved under 61st EDITION, 1 JANUARY 2020 Packing PACKING INSTRUCTION 650 (continued) most circumstances. An external vacuum test is not acceptable if the specified pressure differential is not achieved and maintained. The external vacuum test is a generally acceptable method for rigid receptacles and packagings but is not normally acceptable for: – flexible receptacles and flexible packagings; – receptacles and packagings filled and closed under an absolute atmospheric pressure lower than 95 kPa. (b) For solid substances: 1. The primary receptacle(s) must be siftproof and must not exceed the outer packaging weight limit; 2. The secondary packaging must be siftproof; 3. If multiple fragile primary receptacles are placed in a single secondary packaging, they must be either individually wrapped or separated to prevent contact between them; 4. Except for packages containing body parts, organs or whole bodies, the outer packaging must not contain more than 4 kg. This quantity excludes ice, dry ice or liquid nitrogen when used to keep specimens cold; 5. If there is any doubt as to whether or not residual liquid may be present in the primary receptacle during transport then a packaging suitable for liquids, including absorbent materials, must be used. 5 An itemized list of contents must be enclosed between the secondary packaging and the outer packaging. 650 At least one surface of the outer packaging must have a minimum dimension of 100 mm x 100 mm. The completed package must be capable of successfully passing the drop test described in 6.5.4.4 as specified in 6.5.4.2 except that the height of the drop must not be less than 1.2 m.

Following the appropriate drop sequence, there must be no leakage from the primary receptacle(s) which must remain protected by absorbent material, when required, in the secondary packaging. For transport, the mark illustrated below must be displayed on the external surface of the outer packaging on a background of a contrasting colour and must be clearly visible and legible. The mark must be in the form of a square set at an angle of 45° (diamond-shaped) with each side having a length of at least 50 mm, the width of the line must be at least 2 mm and the letters and numbers must be at least 6 mm high. The proper shipping name “Biological Substance, Category B” in letters at least 6 mm high must be marked on the outer packaging adjacent to the diamond-shaped mark.

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