

科目:危險性物品運輸服務

满卵: 移飘谷

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International Air Transport Association

Certificate

This is to certify that

Yang Kai Ling

has successfully passed with distinction the IATA Aviation Training and Development Institute

In-Company course for THE AIR FREIGHT FORWARDERS ASSOCIATION – R.O.C.

DANGEROUS GOODS REGULATIONS REFRESHER

Taipei, 13 – 15 December 1999

 $L^{\mathbb{D}}$



Guy Chiasson Director, IATA Aviation Training and Development Institute



The Airfreight Forwarder`s Association Taipei Taiwan

This is to certify that 場 凯 玲 YANG,KAI-LING has passed the requisite examination Dangerous goods (REFRESHER) course comprising local regulation & practices and international handling and acceptance procedures endorsed by Civil Aeronautics Authority Ref No. 088-DG-RE-008 Taipei,13-15 Dec. 1999 The Airfreight Forwarder's Association Signature of Instructor

as course co-ordinator

Samson Pao Anselmn Tan Ah Bah - Course Consultant / Instructor Secretary General IATA Customer and Service Division



Class 4 - Other Flammable Hazards







Division 5.1

Division 5.2

Class 6 - Substances affecting Health



Division 6.2

Note: The Class 6.1 packing group III label is no longer used. It is shown here for illustration purposes only. The pictogram was intended to convey the meaning of "poisonous, keep away from foodstuffs".

Class 7 - Radioactive Material







White

Yellow II

Yellow III

Class 8 - Corrosive Materials



Miscellaneous Hazards



Handling Labels







Magnetized Material

Cargo Aircraft Only

This Way Up

Packaging

The key to safety in transporting dangerous goods is the packaging. Of course, good packaging is simply good business. As a shipper of any commodity, you want to make sure that your package and contents arrives at its destination in good order. In the case of dangerous, the Dangerous Goods Regulations sets out exactly how the product must be packaged. This may involve a limitation on the quantity of material in the package, it may require that the goods are in an inner packaging within a strong outer, it may require absorbent material and so on.

Training

The Regulations require that persons involved in the transportation of dangerous goods be trained. This training is intended to ensure that all shipments of dangerous goods are properly and fully prepared by knowledgable and experienced personnel.

Before a consignment of dangerous goods is presented to the airline for transport all people involved in its preparation must have received training to enable them to carry out their responsibilities. Failure to obtain training may be a contributory cause of a violation of national dangerous goods regulations which could involve heavy financial or custodial penalties.

All categories of staff involved in the movement of dangerous goods by air are legally required to have job-specific training. Training must be provided or verified when an employer hires an individual who will be involved in the movement of dangerous goods. Refresher or recurrent training must be received within 24 months of previous dangerous goods training to make sure that the student's knowledge is up-to-date.

The training for operator, or airline staff must be approved by the competent national authority of the Country where the operator or airline is based. The competent authority should also determine the review and approval procedures for all other training

A record of training must be maintained by the employer which must show the name of each individual trained, the date of the most recent training, a description of the training and the name

and address of the organisation providing this training. There must be a certificate issued when the training was conducted showing that the individual has completed a test satisfactorily. These records must be available upon request to the competent authority.

Explosive Hazards

Note: The following description is not intended to be a definitive technical description of explosives nor of the meaning of this term in the area of the Transportation of Dangerous Goods.

Explosives are a special category of dangerous goods. Also, they are special in that the packaging of the material is an integral part of the explosive itself. Different packagings containing the same chemical may make for a different explosive.

Explosions are essentially very fast chemical reactions which release large quantities of gas. For example a solid is converted to a gas in a fraction of a second.

Unlike other dangerous goods, only a government competent authority can designate a material as being an explosive.

Explosives include:

- Sporting ammunition
- Blasting charges and detonators
- Military armaments
- Fireworks, Flares and so on.

There are two main types of explosives and these are identified by the two types of explosive labels. The first is characterised by the "exploding bomb" image in the top of the label. The second only has the division number, 1.4, 1.5 or 1.6. The principal difference between these is that the latter group is "insensitive" and are extremely difficult to initiate an explosion in.



Chemically, an explosive is a substances reacts with itself, and will do so quickly and so quickly that an explosion takes places. Other self-reactive substances would not be called explosives.

Explosives are more precisely divided into six separate "divisions" and 13 compatability groups.

Class 1 is divided into six divisions:

- 1.1 Mass explosion hazard.
- 1.2 Projection hazard but not a mass explosion hazard.
- 1.3 Fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass xplosion hazard. This division comprises articles and substances that:
 - o give rise to considerable radiant heat, or
 - burn one after another, producing minor blast and/or projection effects.
- 1.4 No significant hazard (only a small hazard) in the event of ignition or initiation during transport. The effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected. An external fire must not cause practically instantaneous explosion of virtually the entire contents of the package.
- 1.5 Very insensitive substances, having a mass explosion hazard, which

are so insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport. As a minimum requirement they must not explode in the fire test.

• 1.6 - Extremely insensitive articles which do not have a mass explosion hazard. This division comprises articles which contain only extremely insensitive detonating substances and which demonstrate a negligible probability of accidental initiation or propagation.



For safety reasons, explosives are usually designed to be extremely insensitive. However, an insensitive explosive requires a means of initiation, usually another explosive. Consequently, for transportation, explosives must be segrated from their initiators. This is achieved by further dividing explosives into compatibility groups.

There are 13 compatability groups, each identified by a letter of the alphabet. In general, explosives are not permitted on passenger aircraft. The exception are the so-called safety explosives. These are division 1.4 and compatibility group "S".

Explosives Compatibility Groups

- A Primary explosive substance
- B Article containing a primary explosive substance and not containing two or more effective protective features. This includes blasting detonators and assemblies for blasting and cap type primers, even though they do not contain primary explosives.
- C Propellant explosive substance or other deflagrating explosive substance or article containing such explosive substance

- D Secondary detonating explosive substance or black powder or article containing a secondary detonating explosive substance, in each case without means of initiation, and without a propelling charge or article containing a primary explosive substance and containing two or more effective protective features
- E Article containing a secondary detonating explosive substance, without means of initiation, with a propelling charge (other than one containing a flammable liquid or gel or hypergolic liquids)
- F Article containing a secondary detonating explosive substance, with its own means of initiation, with a propelling charge (other than one containing a flammable liquid or gel or hypergolic liquids) or without a propelling charge
- G Pyrotechnic substance, or article containing a pyrotechnic substance, or article containing both an explosive substance and an illuminating, incendiary, tear- or smoke-producing substance (other than a water-activated article or one containing white phosphorous, phosphide, a pyrophoric substance, a flammable liquid or gel, or hypergolic liquids)
- H includes white phosphorous
- J includes flammable liquid or gel
- K -includes toxic chemical agent
- L Special risk, e.g. due to water activation, or the presence of hypergolic liquids, phosphides or a pyrophoric substance, needing isolation of each type
- N Extremely insensitive detonating substances
- S Any hazardous effects arising from accidental functioning are confined within the package unless the package has been degraded by fire, in which case all blast or projection effects are limited to the extent that they do not significantly hinder or prohibit fire fighting or other emergency response efforts in the immediate vicinity of the package

Types of explosives are identified by a range of labels:

Explosive Labels









Division 1.3



Division 1.1







Division 1.4S

1.5

Division 1.5

Division 1.6

Compressed Gases

Note: The following description is not intended to be a definitive technical description compressed gases nor of the meaning of this term in the area of the Transportation of Dangerous Goods.

Compressed gases may include any of the other hazards. They are included in separate class for a number of reasons. First, a compressed gas has a physical hazard due to the increased pressure under which the chemical is maintained. Also since gases are fluids and therefore highly mobile, they have the property of being able to extend their hazards over a wide area very quickly. In addition, this spread of hazard can take place in three dimensions as compared to a liquid's usual two.

Compressed gases include:

- Oxygen, Nitrogen, Compressed Air
- Acetylene, methane, propane,
- Anyhydrous hydrogen chloride
- Chlorine, Ammonia, Nitrogen Oxide

Since gases may have additional hazards, they are further subdivided into 3 divisions. These are identified by one of 3 labels:

Flammable gases present a particularly dangerous hazard. Given the correct conditions, in a confined space they may even explode. Since they burn, they can cause other normally non-hazards materials to burn as well.

The main category of flammable gases is hydrocarbon gases such as methane, acetylene and so on. Some gases can be liquefied under pressure (propane for example), this means that the given cylinder contains a large volume of gas.



It is important to recognise that flammable gases require oxygen to actually burn. The gas must mix with the oxygen. In addition, in order to begin burning, an ignition source must be present. This is usually a source of high temperature. These are the features which must be carefully controlled in order to be able to handle flammable gases safely.



Some gases are neither toxic, nor are they flammable. These have two principal hazards, they are compressed as described above and they have the capability of displacing oxygen from a confined space. Without oxygen, people very quickly become unconscious and will die within 3 or 4 minutes.

Some division 2.2 gases have the additional hazard of being oxidizers. A classic example is of course oxygen itself. Oxygen makes up 20% of the atmosphere but only a small increase in oxygen contain will increase the liklihood of a fire or other chemical reaction and increase the intensity of that fire should it occur.

Toxic (poisonous) gases are particularly dangerous to health since they mix readily with air and can easily enter the body's systems via the lungs.

Of course, some gases are more toxic than others. Some are so toxic that they are lethal in small concentrations even when they are absorbed via theskin. These are usually exotic chemicals which used to be manufacture for military use. Fortunately they are not commercially transported. However, other chemicals which are extremely toxic are including hydrogen sulphide. All toxic gases are banned for air transport.



Flammable Liquids

Note: The following description is not intended to be a definitive technical description of flammable liquids nor of the meaning of this term in the area of the Transportation of Dangerous Goods.

Flammable liquids, as the name implies, are liquids which burn. Note however, it is not the liquid itself that burns, but the chemical's vapour above the liquid. In general, the easier it is to get the liquid to burn the higher the hazard. This will be a function of the physical and chemical properties of the liquid. In general, two simple measurements are used to determine whether a liquid is flammable or not, the flash point and the boiling point.

Examples of flammable liquids include

- Petrol/gasoline
- Alcohols
- Solvents e.g. benzene

Flammable Liquids are identified by the following label:

The importance of flammability cannot be over-emphasized. Flammable liquids once they are are burning will cause many normally stable materials (eg wood) to burn. The hazard is then extended far beyond the initial spill area. They can cause other packagings to burn and with the extreme heat, cause failure in the bottles, tins and drums containing other dangerous goods which may include more flammable liquids.



Burning materials produce large quantities of smoke which may be toxic (eg, burning plastic) and is oxygen deficient.

Other Flammable Hazards

Note: The following description is not intended to be a definitive technical description.

Flammability is the principle hazard associated with dangerous goods.

Class 2.1 is flammable gases, class 3 is flammable liquids and class 4.1 is flammable solids. However, there are other flammable hazards and these are described below.

Class 4.1

- flammable solids;
- self-reactive and related substances;
- desensitised explosives.

Class 4.2

- Substances liable to Spontaneous Combustion
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances

Class 4.3

• Substances which, in contact with water, emit flammable gases

Each of these separate classes is identified by a label:

Flammable solids are readily combustible solids and solids which may cause fire through friction. Readily combustible solids are powdered, granular or pasty substances which are dangerous if they can be easily ignited by brief contact with an ignition source, such as a burning match, and if the flame spreads rapidly. The danger may not only come from the fire but also from toxic combustion products. Metal powders are especially dangerous because of the difficulty of extinguishing a fire since normal extinguishing agents such as carbon dioxide or water can increase the hazard.



Self-reactive substances of Division 4.1 are thermally unstable substances liable to undergo a strongly exothermic decomposition even without the participation of oxygen (air). The decomposition of self-reactive substances can be initiated by heat, contact with catalytic impurities, e.g. acids, heavy-metal compounds, bases, friction or impact. The rate of decomposition increases with temperature and varies with the substance. Decomposition, particularly if no ignition occurs, may result in the evolution of toxic gases or vapours. For certain self-reactive substances, the temperature must be controlled. Some self-reactive substances may decompose explosively, particularly if confined; this characteristic may be modified by the addition of diluents or by the use of appropriate packagings. Some self-reactive substances burn vigorously. Self-reactive substances include some of the following types of compounds:

- aliphatic azo compounds (-C-N=N-C-);
- organic azides (-C-N3);
- diazonium salts (-CN2+Z-);
- N-nitroso compounds (-N-N=O); and
- aromatic sulphohydrazides (-SO2-NH-NH2).

Substances with other reactive groups and some mixtures of substances may have similar properties.



Self-heating of a substance leading to spontaneous combustion is caused by a reaction of that substance with oxygen (in the air) if the heat developed is not conducted away rapidly enough to the surroundings. Spontaneous combustion occurs when the rate of heat production exceeds the rate of heat loss and the auto-ignition temperature is reached. Two types of substances can be distinguished with spontaneous combustion properties:

- Pyrophoric substances -- substances (liquid or solid) including mixtures and solutions which, even in small quantities, ignite within 5 minutes of coming in contact with air. These substances are the most liable to spontaneous combustion;
- Self-heating substances -- solid substances which generate heat when in contact with air without an additional energy supply. These

substances will ignite only in large amounts (kilograms) and after long periods of time (hours or days).

Certain substances in contact with water emit flammable gases which can form explosive mixtures with air. Such mixtures are easily ignited by all ordinary sources of ignition, for example naked lights, sparking handtools or unprotected light bulbs. The resulting blast wave and flames may endanger people and the environment.



Oxygen Rich Hazards

Note: The following description is not intended to be a definitive technical description.

Flammability is the principle hazard in the transportation of dangerous goods. In consequence, chemicals which will accelerate combustion are also considered to be hazardous. Examples of Oxygen Sources are:

- Sodium Chlorate
- Hydrogen Peroxide
- Methyl Ethyl Ketone
- Sodium Sulphite

Oxidizers are chemicals which contain one or more oxygen atoms which are readily available for reaction with other chemicals. The simplest oxidizer is of course oxygen itself. Others can be identified with the chemical family suffix of "ite" or "ate".



Oxidizers may not be particularly hazardous on their own. They require some other event or condition such as a chemical reaction or fire (which is of course only a particular kind of chemical reaction) for their hazard to be realised.

However, they may quite "corrosive" particularly where moisture is available. This is probably not enough to make them a class 8 hazardous material, but will be extremely irritating to any person attempting to handle the material without proper protective clothing.



Organic peroxides are unique in dangerous goods because this particular hazard class is a specific chemical family. Substances which contain the bivalent structure -O-Oare known as organic peroxides. They may be considered derivatives of hydrogen peroxide in which one or both of the hydrogen atoms have been replaced by organic radicals. Hydrogen peroxide is made up of two hydrogen atoms and two oxygen atoms connected in a chain: H-O-O-H. Organic peroxides are thermally unstable substances which may undergo exothermic, self-accelerating decomposition. In addition, they may have one or more of the following properties:

- be liable to explosive decomposition;
- burn rapidly;
- be sensitive to impact or friction;
- react dangerously with other substances;
- cause damage to the eyes.

Health Hazards

Note: The following description is not intended to be a definitive technical description.

Health hazards include those products and materials which have an adverse effect on the humans and animals. There are two main agents that do this, toxic (poisonous) materials and infectious materials.

Class 6 materials include:

- Pesticides, though not usually herbicides.
- Heavy metal products such as wood preservatives.
- Tissue/Blood samples containing e.g. hepatitis, yellow fever

Toxic materials are identified with the following label:

Toxic substances (poisons) are extremely common. Too much of just about anything when eaten by a person will very likely make them extremely ill or even cause death. A good example is common salt, sodium chloride, which is actually more toxic than some herbicides.



For transportation purposes, only "acute toxicity" is considered, not the long term effects or "chronic toxicity". Since, it is actually quite improbable that anyone would accidentally ingest a toxic material being transported, quite a high level of toxicity is required.

This point was actually made a distinction in the transportation of dangerous goods up until two years ago when substances with a low toxicity were not called toxic, but had a special label entitled "Harmful, keep away from foodstuffs".

Today, this distinction is not made and all these materials are called toxic. This label is shown below.



Infectious substances is an interesting dangerous goods category. Obviously, when you have a cold or the flu, you are carrying infectious substances, but you aren't regulated as a dangerous goods! Of course some people will tell you to go home to bed and not to spread your cold around! In dangerous goods terms, only highly infectious substances which can cause serious health effects are regulated.

The World Health Organization divides infectious substances into 4 risk categories as follows: Risk Group IV - (high individual risk, high community risk): micro-organisms that cause severe human or animal disease, which may present a high risk of spreading and there is usually no effective prophylaxis or treatment available;

Risk Group III - (high individual risk, low community risk): micro-organisms that cause severe human or animal disease, which may present a high risk of spreading but there is usually effective prophylaxis or treatment available;

Risk Group II - (moderate individual risk, limited community risk): micro-organisms that cause human or animal disease, which are unlikely to spread and there is usually effective prophylaxis or treatment available;

Risk Group I - (low individual and community risk): micro-organisms that are unlikely to cause human or animal disease.

Radioactive Hazards

Note: The following description is not intended to be a definitive technical description of explosives nor of the meaning of this term in the area of the Transportation of Dangerous Goods.

Perhaps the most difficult dangerous goods hazard to explain is radioactivity. All materials are to some extent radioactive and consequently radioactivity is all around us. This is called background radioactivity. Obviously, there is no point in regulating all materials! Relying on the enormous amount of research and practical experience that has gone into radioactivity since its discovery by Madame Curie in the 19th century, the International Atomic Energy Authority (IAEA) based in Vienna has set levels at which radioactive material becomes regulated.

The Uses for radioactive materials include:

- Radiopharmaceuticals used for cancer treatment.
- Oilwell analysis
- Identifying faults in steel structures.
- Power generation

Packages containing radioactive material are identified by one of 3 labels:

Radioctivity as a hazard is somewhat different from the other 9 hazard classes because it is not a potential hazard. Radioactivity is being given off all the time. Hence the packaging is designed to ensure that only an acceptable amount of activity will be released. The design and construction of the packaging is therefore very strictly controlled since this is what makes radioactive material safe for transportation. The lowest level of hazard is indicated by the Radioactive "white" label. This indicates a very low hazard.





A "yellow" label is a higher degree of hazard. The package is designed to release no more that the one bearing the white label, but the actual amount of radioactivity inside is higher.

Radioactivity takes several forms depending on how the atom decays.

Radioactivity is the result of atoms of decaying. You will recall from your high school chemistry that elements like carbon, hydrogen, iron, and so on can have several isotopes, atoms of different weights. While a large number of isotopes are stable, more are not. These unstable isotopes decay by given off radioactivity. It is impossible to tell when a particular atom will decay, but since there are so many atoms even in a small amount of material, and since radioactivity obeys some very straightforward statistical rules, the amount of radioactivity in a given amount of a particular of material can be calculated very precisely. This allows experts to build packaging designed to ensure that the package is safe during transportation.



Corrosive Hazards

Note: The following description is not intended to be a definitive technical description of corrosive material nor of the meaning of this term in the area of the Transportation of Dangerous Goods.

Corrosive materials are those which react chemically with the steel, aluminium or skin. These fall into the UN class 8. Products with a corrosive hazard include:

- Acids such as hydrochloric, sulphuric and so on.
- Alkalis (bases) such as sodium hydroxide, ammonium hydroxide and so on.
- Amines such as dimethyl amine.
- Some gases such as Chlorine and Ammonia

Packages with class 8 material inside are indentified with the following label:

The effect of corrosive material is a slow chemical reaction. This contrasted with all the other classes of dangerous goods. These either have an immediate hazard eg. radioactive, or the hazard is associated with a rapid chemical reaction, eg. flammability.



Since corrosives have to contact the material directly to have any effect, the corrosive risk is usually less than other risks.

An excellent example of a product which presents a very specific hazard due to the mode of transport is Mercury. Under the UN system, mercury (chemical symbol Hg) is a class 8 material, with the relatively low hazard rating of packing group III. For air transport, mercury is assigned packing group I. The reason is simple, airplanes are made out of aluminium and mercury's corrosive properties are such that it readily attacks aluminium seriously weakening the strength of that material. Hence, airlines take particular precautions with mercury.

Miscellaneous Hazards

Note: The following description is not intended to be a definitive technical description of explosives nor of the meaning of this term in the area of the Transportation of Dangerous Goods.

There are a number of hazards which don't readily fall into the 9 classes of dangerous goods defined by the United Nations. Usually these are modal specific since they only represent a hazard due to the particular conditions of transport. The air mode is a good example of this. Class 9 hazards include:

- Substances with a noxious odour, (benzaldehyde)
- Substances which are magnetic, (large concert speakers)
- Substances which are transportated at an elevated temperature, (molten sulphur)
- Substances which are cold, (solid carbon dioxide)

Packages with class 9 material inside are indentified with the following label:

The Miscellaneous dangerous goods label conveys no specific information as to the hazard of the product contained in the package. Only the proper shipping name on the outside of the package or on the documentation will help here.

The Miscellaneous label is always a primary risk. This means if another label is shown on the package, there is more than hazardous product inside. The most common example of this is when Dry Ice, i.e. solid carbon dioxide, is being used as a refrigerant.



Since the label does not convey any specific hazard information, competent authorities such as Australia which require hazard descriptions to be shown on the label, allow the use of the word "Miscellaneous". Otherwise, a different label would be required for every Class 9 product!

A series of training books are available for training all categories of staff who have a legal requirement for training in the carriage of dangerous goods by air. The separate books are:

Book 1: Shippers; Packers; Cargo Agents; Operator's Cargo Acceptance Staff

Book 2: Load Planners and Flight Crew

Book 3: Flight Attendants; Passenger Handling and Screening Staff

Book 4: Loading and Warehouse Personnel

- The books are in simple self-teach format but are also suitable for classroom use.
- This training series is produced by IATA in line with the ICAO Technical Instructions, and it is anticipated they will be adopted by airlines and States as official training programmes. Published annually.

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SHIPPER'S DECLARATION FOR DANGEROUS GOODS

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SHALE OIL	3	UN1288	Π		1.8	305	
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					Q = 0.76		
Additional Handling Information		â					
I hereby declare that the contem accurately described above by ff classified, packaged, marked an respects in proper condition for International and national gover	te proper ship id labelled/pla transport acc	ping name, carded, and ording to ap	and are are in a	11	Name/Title of Signatory ROGER F Place and Date AUCKLA Signature (see warning a	ND JAN bove)	MANAGER 1 01, 2001 RR

QUESTION 2 : 777 2222 2222

Airport	of Destin:	tion	Reque	sted Flight Date	Amou	nt of Insurance	INSURANCE
NEW Y	ORK		SQ	Jan.2			
Handlin	g Inform	ation					
			er attached D	GD.	Total	·	Nature and Quantity of Goods
No. of Pieces RCP	Gross Weight	kg lb	Commodity Item No.	Charge	Total		(incl. Dimensions of Volume
1	16	ĸ					



QUESTION 3 : MAX. 25 MARKS

Shipper WERKSTRASSE 23 C-9099 MUNSTER FRANKFURT, GERMANY						aybill No. 777 3333 3 of 1 Pages er's Reference Number (optional)	333	
Consignee RADIAL SYS 25 QUEEN ST MUMBAI INDIA		LTD						
Two completed and signed copies	of this L	Declarati	on must		WAR	NING		
be handed to the operator TRANSPORT DETAILS					Fail	ure to comply in all respendences of the second s	ets with the	applicable
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER CARGO AND CARGO AIRCRAFT AIRCRAFT ONLY		ort of De	-		the Dec	applicable law, subject to daration must not, in an appleted and/or signed by warder or an IATA cargo) legal penal iy circumsta y a consol	ties. This ances, be
Airport of Destination: MUMBA	J.				1	nent type: (delete non-application of the second se		
NATURE AND QUANTITY OF	DANG	EROUS	GOODS					
Dangerous Goods Ide	ntificatio	m						
Proper Shipping Name		Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization
RADIOACTIVE MATE SPECIAL FORM	RIAL	7	UN2974			CS-137 1 TYPE A PACKAGE x 1.5 TBQ	Yellow Ti 0.38 Dims:	Special Form Approval Cert. No.20 attached
Additional Handling Informatio	n							
I hereby declare that the cont accurately described above by classified, packaged, marked respects in proper condition f International and national go	y the pro and lab or trans	per ship elled/pla port acc	ping name, carded, and ording to a	, and are d are in 2 pplicable			k Abe, MA kfurt, Jar	

QUESTION 3 : 777 3333 3333

Airport MUMB	of Destina AI	ntion	Reques LH221	sted Flight Da	te	Amount of Insurance	INSURANCE
Handlin	ng Informa	ition			-		······································
Radic	oactive	mate	erial as per a	ttached D	GÐ.		
No. of	Gross	kg	Rate Class	Rate	Tota	ıl	Nature and Quantity of Goods
Pieces RCP	Weight	1Ь	Commodity Item No.	Charge			(incl. Dimensions of Volume
1	58	k					
				I	<u> </u>		



Q4. Decode the following 'symbol and abbreviation': (1 mark each)

Symbol & Abbre.	Decoding
>	
PPR	

Q5. Quote 1 shipper's specific responsibilities Paragraph Number. (1 mark)

Paragraph No.	
---------------	--

- Q6. A shipment of ACETONE is contaminated with rain water. Test indicates that the new FP & IBP are 50oC & 40oC respectively. What is the new Proper Shipping Name? (1 mark)
- Q7. Fill in the blank box with TYPE A or TYPE B: (1 mark each)

Symbol	Form	Activity	TYPE A or B
Cs-129	A1	5 Tbq	
I-131	A2	0.01 Tbq	

Q8. Fill in the Packing Group:(1 mark each)

Oral Toxicity LD50 (mg/Kg)	Packing Group
8 mg/Kg	
100 mg/Kg	

Q9. Fill in the Packing Group:(1 mark)

Exposure Time	Packing Group
15 minutes	

Q10. Mark out the package which must not be included in this over-pack (1 mark)

UN2904	UN2667
UN1438	UN1152

Q11. Fill the blank: (1 mark each)

T.I 3	Surface Radiation Level 60 uSv/hr	Category of Label
1.2	0 uSv/hr	

Q12. Fill in the Packing Group: (1 mark)

FPoC	IBP	PG
10	40	

Q13. When is UN2217 'not dangerous'? (1 mark)

Q14. TRUE or FALSE? Quote a Reference No. to support your answer. (1 mark each . No mark if there is no or incorrect Reference No.)

No.	Information	T/F	Reference
1.	Aerosol of Div.2.1 is permitted in LTD QTY		
2.	Explosive is not allowed as Excepted Quantities		
3.	DG in LTD QTY package is permitted into France		
4.	Japan Airlines accepts all toxic substances.		
5.	UN1845 must be packed in airtight container		
6.	Charcoal Wet is forbidden under any circumstances	 	
7.	Absorbent material is required for PGIII DG		
8.	DG packages must withstand changes in temperature pressure and vibration		
9.	A shipper may ship RIS through the Post Office		
10.	Type B(M) shipment must be shipped on CAO		
11.	DEAD OIL is a Proper Shipping Name		


































DGR GENERAL EXERCISES-2001

1. Fill in the blank:

Number in DGR	UN or ID No?
0079	
8038	

2. Fill in the "Category" for these RAM:

TI	Surface radiation	Cat:
0	100 usv	
7	3 usv	
2.5	0	
0.9	570 usv	

3. Fill in the "PG" for these RCM:

Exposure Time	Observation Time	PG
2 min	-	
1hr 15mins	10 days	
30 min	5 days	
5 min	1 hr	

4. Fill in TYPE A or TYPE B:

Radionuclide	Form	Activity	Type A/ B
Ba-131	A1	5 Tbq	
Ra-223	A2	1 Tbq	
11-C	A1	0.01Ci	

5. Fill in the "PG" for these toxic items

Toxicity	LD50 mg/kg or LC50 mg/L	PG
Oral	40	
Dermal	2	
Oral	60	
Inhalation	1	

6. Are the following classes/divisions allowed in the same over-pack? Put an 'x' in the appropriate column.

Classes/Division	YES	NO
5.1 & 6.1		
3 & 1.4G		
4.2 & 8		
1.4S & 3		

7. What entry is required in the "Nature and Quantity of Goods" box of the Airway bill when sending an *emptied Type A cylinder used for radioactive material*?

.

8. UN2811 with an Inhalation toxicity of PG I is to be shipped on a CAO. What is the maximum net quantity per package?

Code/symbol	Decoding
n.o.s	
RCM	
Y	
<	
LTD QTY	
kg	

9. Decode the following symbols & abbreviations:

10. Fill in the "PG" for these RFL:

FP	IBP	PG
-22	38	
20	40	
70	30	
10	35	
60	50	

- 11. HEXADIENE is contaminated with rain water. Test indicates that the FP & IBP are now 50 & 60 degrees C respectively. What would be the NEW Proper Shipping Name?
- 12. A used motorcycle (unpacked) is to be shipped by air. Which hazard label must be affixed?
- 13. Quote 1 Shipper's Specific Responsibilities Paragraph No.:

PARA. NO.

14. Fill in the NOPIC with these information:

FLT NO: BB009...to-day...PAX A/C

A/C N ITIN	•	VHBB. SYD-H			
AWB NO	PCS	UN NO.	NET QTY/PKG	TI/CAT	LOADING POSITION
0001	1	1088	5L		A51
0003	2	1586	10Kg		A52
0005	1	2982		0.5/II	AVE22331BB
0007	1	1910	20Kg		PAP56781BB

~

15. Which package must not be included in this over-pack?

<u> </u>					
	UN1919	UN1486	UN1417	UN2730	

16. What is the minimum separation distance for the followings?

TI	Min. distance (Passenger's aircraft) in m.
4.3	
9.0	

17. Fill in the distance:

Before:

<u>After:</u> What is the horizontal separation distance between these 2 packages on a B747?

7





18. True or False and quote a reference no.

	or False and quote a reference no.	T/F	Reference
1	A 4ft drop test is conducted on LTD QTY Pkg.		
2	A 6HC is a composite packaging		
3	Salvage Packaging is used to repack damaged DG		
4	MAG is permitted in Excepted Quantities		
5	Aerosol of Div.2.1 is not permitted in Ltd Qty.		
6	No absorbent material is required for UN1088 in passenger aircraft		
7	3-Pentanol is a proper shipping name.		
8	Japan Airlines accept Fissile Radioactive packages.		
9	RCL label is mandatory for UN1977		
10	DG packages must be able to withstand changes in temperature, net quantity and vibrations		
11	Refrigerators may contain liquefied gas		
12	RIS may be posted as Post Office Mail		
13	Packages containing Dry Ice must be airtight		
14	COKE, HOT is forbidden in aircraft under any circumstances		
15	This marking UN 1A2T/Y200/S/01 GB/AS is called SALVAGE PACKAGING		
16	Type B(M) radioactive must be carried in CAO		
17	Sub-risk labels must show Class number from July 01, 2001		
18	Freight container containing Radioactive must be label on two opposite sides.		
19	The current addition of the DGR is base on the ICAO Technical Instructions		
20	Shipper must insert 24hr emergency response telephone contact number in the Handling Information box of the DGD		

END OF PAPER/PREPARED BY Anselmn Tan of ANSELMN CONSULTANTS

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Shipper	EUMEX TRADI 100 NATHAN R DURBAN SOUTH AFRIC	OAI				Air Waybill No. 777 0000 0001 Page 1 of 1 ^{Pages} Shipper's Reference Number (optional)				
Consignee	KACIDO SDN H 90 JALAN TUN KUALA LUMP MALAYSIA	KU 4	ABDU	L RAHN	MAN					
	ted and signed copies of the operator	this D	Peclaratio	on must		WAR				
,	RT DETAILS					Fail Dan	ure to comply in all respe gerous Goods Regulation	ects with the	e applicable breach of	
	ER CARGO GO AIR RAFT	-	ort of De	parture:		the Dec	applicable law, subject to laration must not, in an upleted and/or signed b varder or an IATA cargo	o legal penal ny circumst oy a consol	lties. This ances, be	
Airport of D	Destination: KUL					Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE.				
NATURE A	AND QUANTITY OF D	ANGI	EROUS	GOODS	-					
]	Dangerous Goods Identi	ficatio	n							
Proper S	Shipping Name		Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorization	
WEAPO	CARTRIDGES F INS rting purposes)	OR	1.4	0014			1 4C1 23 Kg	130	Certificate of approval from Com. Of the South African Policc attached.	
T hereby d	Handling Information	s of th	nis consi	gnment ar	e fully an		Name/Title of Signato:			
classified, resnects in	y described above by th packaged, marked an n proper condition for mal and national gover	d labo transj	elled/pla port acco	carded, an ording to a	id are in a	11	Mike Channon, N Place and Date Durban, 1 Jan 00 Signature [see warming	fanager	h	

				777 00	00 0001	
Airport	of Destina	ntion	Request	ed Flight Date	Amount of Insurance	INSURANCE
KUALA	LUMP	UR	SA122	Jan 03		
Handlir	ng Informs	ation				
	erous g		и			
No. of Pieces RCP	Gross Weight	kg Ib	Rate Class Commodity Item No.	Rate To Charge	otal	Nature and Quantity of Goods (incl. Dimensions of Volume
1	25	к				
		<u> </u>				



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Shipper Malawati Ind Bh 90 Rizal Avenue Manila Phillipines Consignee Imperial Chemi				Air Waybill No. 777 0000 0002 Page 1 of Pages Shipper's Reference Number (optional)				
80 Roger St Denver, Colora USA								
Two completed and signed copies of be handed to the operator	f this Declarati	on must			NING		lianhla	
TRANSPORT DETAILS				Dar	ure to comply in all respect gerous Goods Regulations	may be in	breach of	
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENCE AND ARGO AIRCRAFT ONLY	Airport of De Mani	-	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
Airport of Destination: Den	ver			Shipment type: (<i>delete non-applicable</i>) NON-RADIOACTIVE RADIO				
NATURE AND QUANTITY OF E	ANGEROUS	GOODS		1				
Dangerous Goods Ident	ification		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization	
Refrigerated liquid, heliun	n 2	UN1963			1 steel cylinder 75 kg	202		
Additional Handling Information	ts of this consi	gnment are	fully and	 	Name/Title of Signatory		ANAGER	
classified, packaged, marked an respects in proper condition for International and national gove	id labelled/pla transport acc	carded, and ording to ap	l are in a	11		LA, Jan Howe)	01, 2001	

777 0000 0002

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Airport of Destination		Request	ted Flight Date	Amount of Insurance	INSURANCE
DENVER	-	TW890	Jan.2		
Handling Infor	mation				
n		- and Da	2D		
Dangerous	as pe	r attached DC	JD.		
			M		Noture and Organitity of Goods
No. of Gross	ke	Rate Class		Total	Nature and Quantity of Goods (incl. Dimensions of Volume
No. of Gross			M	Total	
No. of Gross Pieces Weig	ke	Rate Class Commodity	Rate	Total	



Shipper Shipper CHEMICAL & M 25 THE PLAZA SCOTT ROAD SINGAPORE Consignee NIHON JUSHA 3-CHOME, NE OSAKA JAPAN	CO LTD	RY PTI	E LTD	Page1	aybill No. 777 000 of 1 Pages er's Reference Number (optional)	0 0003			
Two completed and signed copies of be handed to the operator TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIRCRAFT ONLY	f this Declarati Airport of De SIN			Fail Dan the Dec con for	NING lure to comply in all r ngerous Goods Regula applicable law, subje claration must not, i npleted and/or signe warder or an IATA ca	ations may be in ect to legal pena in any circumst d by a consol rgo agent.	breach of lties. This tances, be		
Airport of Destination: OSA				Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE					
NATURE AND QUANTITY OF D		GOODS							
Dangerous Goods Identi	Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorization		
ALLYL GLYCIDYL ETH	ER UN 2219	3	Ш		1 1A2 100L	310			
Additional Handling Information I hereby declare that the content accurately described above by th classified, packaged, marked an respects in proper condition for t	e proper shipj d labelled/plac	ping nam carded, au rding to a	e, and are nd are in a		Name/Title of Signa Place and Date SI Signature (see warn	MMY LOW, NGAPORE	MANAGER JAN 01, 200		

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SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Airport of Destination Requested Flight Date Amount of Insurance INSURANCE KANSAI AIRPORT SQ88 Insurance Insurance Insurance Handling Information Dangerous as per attached DGD. Nature and Quantity of Goods (incl. Dimensions of Volume No. of Prices Gross kg Rate Class Rate Total (incl. Dimensions of Volume)			777 00	00 0003	
No. of Pieces Gross kg Rate Class Rate Total Nature and Quantity of Goods (incl. Dimensions of Volume	•		ested Flight Date	Amount of Insurance	INSURANCE
No. of Pieces Gross Weight kg Rate Class Rate Total Nature and Quantity of Goods (incl. Dimensions of Volume	Handling Informa	tion			
Pieces Weight Ib Commodity (incl. Dimensions of Volume	Dangerous a	ts per attached D	GD.		
RCP Item No. Charge	Pieces Weight	lb Commodity		otal	
	RCP	Item No.	Charge		



Shipper CHEMAG INC 1141 MAIN ST TAIPEI TAIWAN				Air Waybill No. 777 0000 0004 Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee SOMCHAI CI 20 SILOM RC BANGKOK THAILAND		LTD						
Two completed and signed copies of be handed to the operator	f this Declaration	on must			NING ure to comply in all respe	ate with th	e applicable	
TRANSPORT DETAILS		_		Dar	gerous Goods Regulation	s may be ir	n breach of	
This shipment is within the limitations prescribed for: (delete non-applicable)PASSENGER AND CARGO AIRCRAFT ONLYCARGO AIRCRAFT	Airport of De		Dec com	applicable law, subject to laration must not, in an ipleted and/or signed by varder or an IATA cargo	y circumst y a conso	ances, be		
Airport of Destination: BAN	GKOK			Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE				
NATURE AND QUANTITY OF I Dangerous Goods Ident		GOODS						
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorization	
CHLOROSILANCES, WATER-REACTIVE, FLAMMABLE, n.o.s	UN 2988	4	1	3 8	1 STEEL 1L	408		
Additional Handling Information I hereby declare that the conten accurately described above by f classified, packaged, marked an respects in proper condition for International and national gove	he proper ship nd labelled/pla transport acco	ping nan carded, s ording to	ne, and are and are in a	े ग्री	Name/Title of Signatory FREDERICK I Place and Date TAIPEI JA Signature (see warning	EP, MAN		
International and national gove					F.L.			

Airport	of Destin:	tion	Reque	sted Flight Date	Amount	of Insurance	INSURANCE
BANG	КОК		CI	JAN 03			
Handlin	ng Inform	tion					
See a	ttached	DG	Đ.				
No. of Pieces RCP	Gross Weight	kg lb	Rate Class Commodity Item No.	Rate	Total		Nature and Quantity of Goods (incl. Dimensions of Volume
1	3	k					

777 0000 0004



Shipper CORONET CORI 89 KINGSTON ST MARBLESLAB JOHANNESBURG AFRICA Consignee HAN SAN KOO 90 ITAEWON B	F G, SOUTI K	1		Air Waybill No. 777 0000 0005 Page 1 of 1 Pages Shipper's Reference Number (optional)					
KAMSAMEDA SEOUL, SOUTF	I KOREA						- - - - - - - - - - - - - - - - - - -		
Two completed and signed copies of be handed to the operator	this Declarat	ion must			NING				
TRANSPORT DETAILS					lure to comply in all respe agerous Goods Regulation				
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER CARGO AND CARGO AIRTRAFT AIRCRAFT NI.Y	Airport of D	eparture:		Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
Airport of Destination: SEL		,		Shipment type: (<i>delete non-applicable</i>) NON-RADIOACTIVE RADIOACTER;					
NATURE AND QUANTITY OF DA	NGEROUS	GOODS		ł					
Dangerous Goods Identif	cation								
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorizatio		
MAGNESIUM CHLORAT	Е 5	UN2723	II		1 FIBREBOARD BOX 1 KG	¥208	LTD QTY TRANSI		
Additional Handling Information I hereby declare that the contents accurately described above by the classified, packaged, marked and respects in proper condition for tr International and national govern	proper ship labelled/pla ansport acco	ping name, carded, and ording to ap	and are i are in a l		Name/Title of Signatory WILLIA Place and Date Signature JOHANN	М ТО, М .	ANAGER 2/1/01		

(1,2,1)

Airport of Destination	Request	ed Flight Date	Amount of Insurance	INSURANCE
SEOUL	KE891	JAN 02		
Handling Information	,			
Deserves and				
Dangerous goods	as per attach	ed DGD.		
No. of Gross kg F	<u>~</u>		otal	Nature and Quantity of Goods (incl. Dimensions of Volume

777 0000 0005



Shipper TRIPLE ACE BH 123 IPOH LANE KUALA LUMPUI MALAYSIA				Air Waybill No. 777 0000 0006 Page 1 of Pages Shipper's Reference Number (optional)				
Consignee WING OON IM 99 SAI MAN ST HONG KONG		5		· · ·				
Two completed and signed copies of be handed to the operator	this Declarati	on must			NING			
TRANSPORT DETAILS					ure to comply in all respe- agerous Goods Regulation			
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER CARGO AND CARGO AIR RAFT AIRCRAFT NI.Y	Airport of De	eparture:	R	the Dec con	applicable law, subject to slaration must not, in an apleted and/or signed by warder or an IATA cargo a	legal pena y circumst / a consol	lties. This ances, be	
Airport of Destination: SAI MAN S	ST			Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE				
NATURE AND QUANTITY OF D	ANGEROUS	GOODS						
Dangerous Goods Identi	fication							
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorizat	
Acetylene tetrachloride	6.1	UN1702	2		1 PLYWOOD BOX 1 L	610		
Additional Handling Information I hereby declare that the content accurately described above by th classified, packaged, marked an respects in proper condition for International and national gover	e proper ship d labelled/pla transport acco	ping name, carded, and ording to aj	and are I are in a	9 11	Place and Date	AHMAD,	MANAGI PUR, 1/01/	

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				,	// 00		/0	
Airport	of Destin:	f Destination Requested Flight Date				Amoun	t of Insurance	INSURANCE
HONG	KONG		CX008	JAN.2				
Handli	ng Inform	ation						
Dang	erous Gross	g000		Rate	То	(a)		Nature and Quantity of Goods
Pieces RCP	Weight		Commodity Item No.	Charge	10	ar	•	(incl. Dimensions of Volume
1	3	k						



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Shipper OLSEN PHOTO 123-5K WILLIE OSLO NORWAY		AB.		Air Waybill No. 777 0000 0008 Page of 1 Pages Shipper's Reference Number (optional)					
Consignee HA LONG IM 123 HAIPHON HANOI VIETNAM									
Two completed and signed copies of be handed to the operator	f this Declarati	on must		WAR	NING				
TRANSPORT DETAILS					ure to comply in all responses to comply in all responses of the second se				
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIR RAFT AIRCRAFT	Airport of De	-	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.						
Airport of Destination:	HANOI			Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE					
NATURE AND QUANTITY OF D	ANGEROUS	GOODS							
Dangerous Goods Identi	fication	÷							
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorizatio		
Battery fluid, acid	8	UN2796	Π		14G1L	809			
Additional Handling Information									
I hereby declare that the content accurately described above by the classified, packaged, marked an respects in proper condition for International and national gover	e proper ship d labelled/pla transport acco	ping name, carded, and ording to ap	and are are in a		Place and Date	sper Mann, slo, 01/01/01	_		

				77	7 0000 00	08	
Airport	of Destina	ation	Reque	sted Flight Date	Amou	nt of Insurance	INSURANCE
HANOI			SK80	JAN01			
Handlir	ng Inform	ation					
Dang No. of l	erous	-	ds as per attac	hed DG.	Total		Nature and Quantity of Goods
Pieces RCP	Weight		Commodity Item No.	Charge	i viai		(incl. Dimensions of Volume
1	3	k					



Air Waybill No. 777 0000 0009 Page 1 of 1 Pages Shipper's Reference Number (optional)					
RNING					
illure to comply in all respects with the applicable					
Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penaltics. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
ment (vpe: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE					
Quantity and Packing Authorization type of packing Inst.					
2 wooden boxes x 25kg 910					
Name/Title of Signatory Zsa Gabo, Manageress Place and Date Signature Budapest, 01/01/01					
Pl					

				77	7 0000 000)9	
Airport	of Destin	ation	Reque	sted Flight Date	Amoun	t of Insurance	INSURANCE
Singapo	ore		SK8190	JAN.02			
Handlin	ng Inform	ation					
		-	ds as per attac				
No. of Pieces	Gross Weight	kg Ih	Rate Class	Rate	Total		Nature and Quantity of Goods (incl. Dimensions of Volume
RCP			Item No.	Charge			
2	50	k					



Shipper	Pragas Kandasm 678 Vikram Sara Mumbai India		n		Air Waybill No. 777 0000 0010 Page 1 of 1Pages Shipper's Reference Number (optional)						
Consigned	⁸ Robert Mauroux 168 Rue de le Ma Auckland New Zealand										
-	eted and signed copies o the operator	f this Declarati	on must			INING					
TRANSPO	RT DETAILS					lure to comply in all respec ngerous Goods Regulations					
This shipment is within the limitations prescribed for: (delete non-applicable) Airport of Departure: PASSENGER CARGO Mumbai						applicable law, subject to claration must not, in any npleted and/or signed by warder or an IATA cargo as	circumst a consol	ances, be			
AND CAR AIRCRAF	GO AIRCRAFT	O AIR RAFT									
Airport of I	Destination:	L				Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE					
NATURE A	AND QUANTITY OF D	ANGEROUS	GOODS								
1	Dangerous Goods Identi	fication						l			
Proper S	Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization			
Sodium 1	Nitrite	5.1	UN1500	ш		12 kg	516				
Triallyl 1	Borate	6.1	UN2609	IJ		12L	611				
Safety M	latches	4	ID1944	3		5L All packed in one wooden box	440				
Additional	Handling Information				<u></u>	Q = 0.88					
accurately classified, respects in	eclare that the content described above by th packaged, marked an proper condition for (nal and national gover	e proper shipj d labelled/plac ransport acco	bing name, arded, and rding to ap	алd are are in al		Name/Title of Signatory Samy Sa Place and Date Signature Mumbai (see warning above)	umy, Ma , 1 JAN 2	_			

Airport o	f Destina	tion	Reques	sted Flight Dat	e Amo	unt of Insurance	INSURANCE
AUCKL/	AND		NZ890	Jan 02			
Handling	Informa	ation				· · · · ·	
DGD a			Rate Class	Rate	Total		Nature and Quantity of Goods
	Weight		Commodity Item No.	Charge			(incl. Dimensions of Volume
		k					



777 0000 0010

2000

90 Be	n Yang Compa Xiao Xiao Lu ijing & China	iny			Air Waybill No. 777 0000 0011 Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee	Roberto Mar 53 Via Venet Rome Italy			-					
Two completed of the banded to the	and signed copies of operator	f this Declara	tion must			INING	· · · · · · · · · · · · · · · · · · ·		
TRANSPORT						lure to comply in all respe neerous Goods Regulation			
This shipment is limitations press (delete non-appl PASSENGER AND CARGO AIRCRAFT	ribed for:	Airport of I Beijing	Departure:	the Dec con	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Desti	nation: Rom	ie			Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE				
	QUANTITY OF D gerous Goods Identi		GOODS						
Proper Shipp	ping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorizatio	
OCTYL A	LDEHYDES	3		ш		6L	309		
PHENOLA	ATES	8	UN2905	111		10	822		
SODIUM	AZIDE	6	UN1687	Π		10 Kg	613		
						All packed in one 4G			
						Q = 0.9			
Additional Han	dling Information		l	i	<u>.</u>	<u>i</u>		I	
accurately des classified, pack respects in pro	re that the contents cribed above by th saged, marked and per condition for t and national gover	e proper ship 1 labelled/pla ransport acc	ping name, carded, and ording to ap	and are are in a		Name/Title of Signatory Alex Place and Date Signature (see warning above)	Wu, Mana g 1 Jan Ale X	-	

				-			
-	t of Destin	ation		ested Flight Date Amount of Insur			INSURANCE
ROME			CA				
Handli	ng Inform	ation					
Dang	erous g	good	S				
No. of	Gross	kg		Rate	Total		Nature and Quantity of Goods
Pieces RCP	Weight	lb	Commodity Item No.	Charge			(incl. Dimensions of Volume
1	28						_



777 0000 0011

ShipperSt John Hospital678 Hughes StLondon WC 1United Kingdom				Page	Waybill No. 777 0000 0 1 of 1 Pages per's Reference Number <i>(optional)</i> SJI	012 1/009/99)
Consignee La Coix du Sue 76 Fleet St Sydney Australia	l Hospit:	aŭ				, 	
Two completed and signed copies of t be handed to the operator	his Declard	ation must			RNING		1, 11
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER CARGO AND CARGO AIRCRAFT AIRCRAFT ONLY	Departure:	Failure to comply in all respects with the applicabl Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
Airport of Destination: SYD			Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE				
NATURE AND QUANTITY OF DA	NGEROUS	GOODS			ç		
Dangerous Goods Identifu Proper Shipping Name	class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorizat
Infectious substance, affectin human (X-Virus) Dry Ice	1g 6 9	UN2814 UN1845			50ml 3kg All packed in one 4G	602 904	Australi Health Authori Approva Certifica No.AUC attached
Additional Handling Information Prior arrangements as re I hereby declare that the contents of accurately described above by the j classified, packaged, marked and l respects in proper condition for tra	f this consi proper ship abelled/pla	gnment are : ping name, icarded, and	fully and and are are in al	- 	Goods Regulations 1.3.3 Name/Title of Signatory Dion Duxt Place and Date Signature London, 0	on, Mai	

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				777	0000 0012		
Airport	of Destin	Mİ SM	Roques	ted Hight Date	Amount of	Insurance INSURANCE	<u> </u>
SYDNE	EY -		QF890	JAN 01			
Handlin	ng Inform	ation			k	· · · · · · · · · · · · · · · · · · ·	
Infec	tious su Gross		ance as per att	ached DGD.	Total	Nature and Quantity of G	ooda
Pieces RCP	Weight		Commodity Item No.	Charge		(incl. Dimensions of Volum	
1	5	k					



Shipper PT SUPER MEC 95 JALAN THA JAKARTA BAR INDONESIA Consignee MOUNT BLAN BUNDESANT	MRIN AT NC INDUS	TRIES	Page	Air Waybill No. 777 0000 0013 Page of Pages Shipper's Reference Number (optional)				
ZURICH SWITZERLAN Two completed and signed copies of be handed to the operator TRANSPORT DETAILS		ion must		Fai	ENING lure to comply in all respect			
This shipment is within the limitations prescribed for: (delete non-applicable)PASSENGER AND CARGO AND CARGO AIRCRAFT ONLYCARGO AIRCRAFT	Airport of D	eparture:	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
Airport of Destination:	ANGEBOUG	COOD5			nent type: (delete non-applical NON-RADIOACTIVE RAD		R	
NATURE AND QUANTITY OF D Dangerous Goods Identi		GOODS				1	,	
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorizatio	
BENZENE	3	UN1114	II		10 STEEL DRUM X 60L OVERPACK USED			
Additional Handling Information I hereby declare that the contents accurately described above by the classified, packaged, marked and respects in proper condition for t International and national govern	e proper shipj l labelled/plac ransport acco	oing name, arded, and rding to ap	and are are in al		Name/Title of Signatory Place and Date Adi Su Signature Jakarta, 0		Manager	

				77	7 00	00 0013	
Airport	of Destin:	tion	Reque	sted Flight Date	/	Amount of Insurance	INSURANCE
ZURIC	H		SR890	JAN 01			
Handlin	ng Inform:	ation				· · · · · · · · · · · · · · · · · · ·	
As pe	er attacl	ned	DGD				
No. of Pieces RCP	Gross Weight		Rate Class Commodity Item No.	Rate	То	tal	Nature and Quantity of Goods (incl. Dimensions of Volume
1	610	к					



Shipper AKAI INDUSTI 3-CHOME, CH TOKYO JAPAN		Air Waybill No. 777 0000 0014 Page 1 of 1 Pages Shipper's Reference Number (optional)			
Consignee MABUHAY T 5th Ave. Taipei Taiwan	RADING CO.				
Two completed and signed copies of be handed to the operator	f this Declaration must	WARNING			
FRANSPORT DETAILS		Failure to comply in all respects with the applica Dangerous Goods Regulations may be in breach			
Chis shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER CARGO	Airport of Departure:	the applicable law, subject to legal penaltics. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.			
AND CARGO AIRCRAFT AIRCRAFT ONLY	ТОКҮО				
Airport of Destination:	TAIPEI	Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE			
Paint, 3, UN1263, I 1 4G 30L 309 Additional Handling Information					
accurately described above by t classified, packaged, marked a	ts of this consignment are fully and he proper shipping name, and are nd labelied/placarded, and are in a • transport according to applicable	H Place and Date Bernard Kato, Manager			
International and national gove	examental regulations	Signature Tokyo, 01/01/01 (see warning above)			

nation nation Goods	JL88	ted Flight Date JAN02	Amount of Insurance	INSURANCE
	as per DGD	attached		
Goods	as per DGD	attached		
11 = 11			otal	Nature and Quantity of Goods
	Commodity Item No.	Charge		(incl. Dimensions of Volume
k				
	nti Ib	nt lb Commodity Item No.	nt lb Commodity Item No. Charge	nt lb Commodity Item No. Charge



18 Ma	che & Sache Peel St anchester nited Kingdom RAM Systems Laussance 10 CH1008 Zuric Switzerland	-		Page	Waybill No. 777 0000 1 of 1 Pages per's Reference Number <i>(optional)</i>	0015		
Two completed be handed to th	d and signed copies of the operator	f this Declara	tion must		WAI	RNING		
TRANSPORT						lure to comply in all resp ngerous Goods Regulation		
This shipment is within the limitations prescribed for: Airport of Departure: (delete non-applicable) Airport of Departure: PASSENGER CARGO AND CARGO AIRCRAFT AIRCRAFT Manchester						applicable law, subject claration must not, in a npleted and/or signed warder or an IATA cargo	iny circums by a consc	tances, be
Airport of Dest	tination:	Zurich			nent type: (delete non-applid NON-BATHOACTIVE, RA		2	
NATURE ANI	D QUANTITY OF D	ANGEROUS	GOODS		L	· · · · ·		,
Dar	ngerous Goods Identi	fication						
Proper Shij	pping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization
RAM, spe	ecial form, n.o.s.	7	UN2974			CS-137 1 Type A package x 0.9 TBq	I white	Special Form Approval Cert. No.0 attached
I hereby decla accurately des classified, pac respects in pre	ndling Information are that the contents scribed above by the kaged, marked and oper condition for th and national govern	proper ship labelled/plac ansport acco	oing name, a arded, and a rding to app	und are tre in al		Place and Date	os Nikka, nester, 1 J4	_

				777 0	000 0015	
Airport	of Destin	ation	Requeste	ed Flight Date	Amount of Insurance	INSURANCE
ZURIC	Н		BA899	JAN.02		
Handlì	ng Inform	ation				· · · · · · · · · · · · · · · · · · ·
RAM No. of Pieces RCP	as per Gross Weight	kg	ached DGD. Rate Class 1 Commodity 1 Item No. 1	Rate T Charge	otal	Nature and Quantity of Goods (incl. Dimensions of Volume
1	3	к				· · ·



NING ure to comply in all respect gerous Goods Regulations applicable law, subject to laration must not, in any pleted and/or signed by varder or an IATA cargo a ent type: (delete non-amplical	a may be in breach of legal penaltics. This y circumstances, be a consolidator, a gent.		
ure to comply in all respec gerous Goods Regulations applicable law, subject to faration must not, in any pleted and/or signed by varder or an IATA cargo a	a may be in breach of legal penaltics. This y circumstances, be a consolidator, a gent.		
gerous Goods Regulations applicable law, subject to laration must not, in any pleted and/or signed by varder or an IATA cargo a	a may be in breach of legal penaltics. This y circumstances, be a consolidator, a gent.		
applicable law, subject to laration must not, in any pleted and/or signed by /arder or an IATA cargo a	legal penaltics. This y circumstances, be a consolidator, a gent.		
ent type: (delete non-amplical			
Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE			
Quantity and type of packing	Packing Authorizatio		
OSMIUM-185 1 Type A package x 1 TBQ	H YELLOW TI =0.33 DIMS: 40X40 X40CM		
	ARD CHEN		
	Name/Title of Signatory BERN Place and Date		

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Shipper MeCOMB PTE 1 8 HANG LOONO HONG KONG			Air Waybill No. 777 0000 0017 Page 1 of Pages Shipper's Reference Number (optional)					
Consignee FIJ HEAVY 1104 COMO BUENOS AI ARGENTIN	DOR PED RES							
Two completed and signed copies of be handed to the operator	f this Declara	tion must		WAR	INING			
TRANSPORT DETAILS					lure to comply in all responses to comply in all responses to comply in all responses to complete the second s			
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER CARGO AND CARGO AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT					Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.			
Airport of Destination:	BUE		1	nent type: (<i>delete non-appli</i> 4000-RADIOACTIVE R.				
NATURE AND QUANTITY OF D	ANGEROUS	GOODS						
Dangerous Goods Identi	fication							
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorizatio	
RADIOACTIVE MATERIAL, SPECIAL FORM, n.o.s	7	UN2974			RADIUM-223 1 TYPE B (U) steel package x 3 Tbq	III Yellow TI 0.55	Special Form S303 & Package Dcsign Cert. HKG87 attachet	
Additional Handling Information I hereby declare that the contents accurately described above by the classified, packaged, marked and respects in proper condition for th International and national govern	proper ship labelled/plac ansport acco	oing name, arded, and rding to ap	and are are in al			ppy Kau, M Kong 01/01	/01	

Airnort	of Destina	ntion	Reque	sted Flight Date	.//	mount of Insurance	INSURANCE
uenos /					· ·		
Handling	g Informa	tion					<u> </u>
DGD	attache	ed.					
	- 8						
No. of Pieces	Gross Weight			Rate	Total		Nature and Quantity of Goods
No. of Pieces RCP	Gross Weight		Rate Class Commodity Item No.	Rate	Total		Nature and Quantity of Goods (incl. Dimensions of Volume

777 0000 0017



Shipper V H RIJARD RA 11 HAARLEEM AMSTERDAM NETHERLAND	i ST		Page	Air Waybill No. 777 0000 0019 Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee MeCOMB SYS 8 BUKIT TIM SINGAPORE								
Two completed and signed copies of be handed to the operator	of this Declara	tion must		WAI	RNING			
TRANSPORT DETAILS					lure to comply in all respe			
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIRCRAFT NLY	Airport of D	eparture:		Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. Th Declaration must not, in any circumstances, b completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Destination:	S	IN			nent type: (<i>delete non-applica</i> NON-RADIOACTIVE RAI	_		
NATURE AND QUANTITY OF E	DANGEROUS	GOODS						
Dangerous Goods Ident	ification					ł		
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorizatio	
RADIOACTIVE MATERIA OTHER FORM, n.o.s.	.L, 7 [`]	UN2982			I-126 Metal Solid 1 TYPE B(U) STEEL DRUM x 1 Tbq		TYPE B Package Design Certificate NL/90/99 attached	
Additional Handling Information								
I hereby declare that the contents accurately described above by th classified, packaged, marked and respects in proper condition for t International and national govern	e proper ship) i labelled/plac ransport acco	ping name, carded, and rding to ap	and are are in al		Name/Title of Signatory Place and Date F.dc Bo Signature Amsterdar (see warning above)			
Airport	Airport of Destination		Reque	sted Flight Date	Amount of Insurance	INSURANCE		
---------------	------------------------	-------	-----------------------	------------------	---------------------	------------------------------	--	
INGAI	ORE		KL890	JAN.2				
Handlin	g Inform	ation						
DG as	s per at	tacł	ned DGD.	Rate	Total	Nature and Quantity of Goods		
Pieces RCP	Weight		Commodity Item No.	Charge	Totar	(incl. Dimensions of Volume		
1	57	k						

777 0000 0019



DANGEROUS GOODS CHECK LIST FOR A NON-RADIOACTIVE SHIPMENT

The recommended check list appearing on the following pages is intended to verify shipments at origin. Never accept or refuse a shipment before all items have been checked. Is the following information correct for each entry?

.

SHIPPERS DECLARATION FOR DANGEROUS GOODS (DGD)

		YES	NO*	N/A		
1 .	Two copies in English and in the IATA format [8.1.1, 10.8.1.2, 10.8.1.3, 9.1.1.2]		Q		18.	Ove
2	Full name and address of Shipper [8.1.6.1]	a	ū		-	<u> </u>
3. :	Full name and address of Consignee [8.1.6.2]	ū				-
4.	Name and Telephone Number of a per- son responsible for Division 6.2 Infectious Substance shipment [8.1.6.2]	ū	ū	Q	Pac	king l
5. _i	If the Air Waybill number is not shown, enter it. [8.1.6.3]	Q			19.	Pack Step
6.	The number of pages shown [8.1.6.4]	Ū			Aut	horiza
7.	If full name of Airport or City of Departure or Destination is not shown, enter it. [8.1.6.6 and 8.1.6.7]	ם	Q		20.	Indic Qty." [8.1.6
8.	The non-applicable Aircraft Type deleted [8.1.6.5]		D		21.	The 3 A51,
9.	The word "Radioactive" deleted [8.1.6.8]		D		22.	Indic is att
	ntification	_	_			[8.1.
10.	Proper Shipping Name and the technical name in parentheses for asterisked en- tries [8.1.6.9.1, Step 1]	ū				Addi [8.1.0
11.	Class or Division, and for Class 1, the Compatibility Group [8.1.6.9.1, Step 2]	Q	D			lition: For s of Di
12.	UN or ID Number, preceded by prefix [8.1.6.9.1, Step 3]	ū	Q			Divis
13	Packing Group [8.1.6.9.1, Step 4]					and
14	Subsidiary Risk [8.1.6.9.1, Step 5] (if ad- ditional labeling)	Q	ū	•	25.	Prio tious
Qua	ntity and Type of Packing				26.	Nam Date
	Number and Type of Packages [8.1.6.9.2, Step 6]	۵	Q		27.	Sign
16.	Quantity and unit of measure (net or gross, as applicable) per package [8.1.6.9.2, Step 6]		Ū	Q	28.	Ame Ship
17.	If different dangerous goods are packed in one outer packaging, are the following rules applied:				AIR 29.	WAY The "Dan
	 Compatible according to Table 9.3.A. (note exception for chemical kits/first aid kits. See Packing Instruction 915 and Y915) 		Q		30.	per's as pe "Carg ble [4
	 For UN packages containing Division 6.2 [5.0.2.11(c)] 	Q,	Q	ū		
	 "All packed in one (type of packag- ing)" [8.1.6.9.2, Step 6(e)] 	Q	Q			
	- Calculation of "Q" value [5.0.2.11;5.0.3.2; 8.1.6.9.2, Step 6(f)]			Q		

		YES	NO [∗]	N/A
18.	Overpack		•	
	 Indication "Overpack used" [8.1.6.9.2; Step 7] 			
	 Compatible according to Table 9.3.A. [5.0.1.5.1 and 5.0.1.5.3] 	D		۵
-	 Multi-overpack marks and quantity per overpack (Fig. 8.1.L and 8.1.M) [8.1.6.9.2, Step 7] 	D		Q
Pac	king Instructions			
19.	Packing Instruction Number [8.1.6.9.3, Step 8]			
Auti	norizations			
20.	Indication of "Limited Quantity" or "Ltd. Qty." if "Y" packing instruction used [8.1.6.9.4, Step 9]	ū		Q
21.	The Special Provision Number if A1, A2, A51, A81 or A109 [8.1.6.9.4, Step 9]			Q
22.	Indication that governmental authorization is attached, including a copy in English [8.1.6.9.4, Step 9]			Q
23.	Additional approvals for other items under [8.1.6.9.4, Step 9]			
Add	itional Handling Information			
24.	For self-reactive and related substances of Division 4.1 and organic peroxides of Division 5.2, or samples thereof, is the mandatory statement shown [8.1.6.11.1 and 8.1.6.11.2]	Q	Q	
25.	Prior arrangement statement for Infec- tious Substances [8.1.6.11.3]	Ū	Q	
26.	Name and Title of Signatory, Place and Date indicated [8.1.6.12 and 8.1.6.13]		Q	
27.	Signature of Shipper [8.1.6.14]			
28.	Amendment or alteration signed by Shipper [8.1.2.6]	۵	Q	Q
AIR	WAYBILL			
29.	The Handling Information box shows: "Dangerous goods as per attached Ship- per's Declaration" or "Dangerous Goods as per attached DGD" [8.2.2]		ū	
30.	"Cargo Aircraft Only" or "CAO", if applica- ble [8.2.2]		Q	D

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		YES	NO*	N/A			YEŞ	NO*	N/A
PAC	KAGE(S) AND OVERPACKS			-		The Subsidiary Hazard label(s), without	Ū		
31.	Packaging conforms with packing instruc- tion and is undamaged [9.1.1.3]		ū		2	Class or Division Number, as per 4.2,Column E [7.2.3.2]	I		-
32.	Same number and type of packagings and overpacks delivered as shown on DGD and is undamaged [9.1.1.3]				43A. 1	The Subsidiary (Ezan) Labas musik show the Obiss of Division humber as parts 3. Solumin 2 (7/2,3/2)			
Mari	kings				44.	Cargo Aircraft Only label, adjacent to the Hazard label(s) [7.2.4.2; 7.2.6.3]	D .		
	For UN Specification Packaging, are they				45.	"Orientation" labels [7.2.4.4]			
	marked according to 6.0.4 and 6.0.5: - Symbol and Specification Code	Q			46.	For Magnetized Material, the Handling label [Subsection 4.2, Column E and			
	 X, Y or Z, agreed with Packing Group/Packing Instruction 				17	7.2.4.1]	-	-	-
	 Maximum Gross Weight not ex- ceeded (Solids or Inner Packagings) 					"Cryogenic Liquid" labels [7.2.4.3] All above labels correctly affixed [7.2] and			
	- Infectious substance package mark-		۵			have all irrelevant marks and labels been removed [7.1.1; 7.2.1]	_	_	_
34.	ing [6.0.6] The Proper Shipping Name(s) including				For	Overpacks			8
	technical name where required, and the UN or ID Number(s) [7.1.5.1(a)]	-	-		49.	If specification markings are not visible, the required statement marked [7.1.4.2]	Q		
35.	The full name(s) and Address(es) of Shipper and Consignee [7.1.5.1(b)]	Q			50.	Packaging Use markings as required must be clearly visible or reproduced on		Q	Q
36.	The Net Quantity of Explosives and Gross Weight of the package for Class 1 items [7.1.5.1(c)]		a		51.	the outside of the overpack [7.1.5] If more than one overpack, identification marks and the total quantity of each over-	a		۵
	The Name and Telephone Number of a person responsible for Division 6.2 Infectious Substances shipment [7.1.5.1(d)]	Q	a	ū		pack must be indicated adjacent to the proper shipping name [Figure 8.1.L and 8.1.M; 7.1.4.3]			
38.	The Special Marking requirements shown for Packing Instruction 202 [7.1.5.1(e)] 916, 917	Q	ū	D	52.	"Cargo Aircraft Only" restrictions [5.0.1.5.3]			
39.	In case of Carbon Dioxide, Solid (Dry Ice),	Q				IERAL			
	the Net Weight marked on the package [7.1.5.1(f)]	<u> </u>			53.	State and Operator variations complied with [2.9]	Q	Q	
10.	For Limited Quantity packagings: "LIM- ITED QUANTITY" or "LTD. QTY." [7.1.5.3]		Q		54.	Advance arrangements for Infectious, Self-Reactive Substances of Division 4.1 and Organic Peroxides of Division 5.2			
11.	For Salvage Packagings: Is it marked "Salvage"? [7.1.5.4]		Q			made and confirmed [9.1.2; 9.1.3]		_	_
_ab	eling				55. ⁻	For "Cargo Aircraft Only" shipments, a cargo aircraft operates on all sectors		Q	
42.	The Primary Risk label(s), with Class or Division Number affixed to each package, as per 4.2, Column E [7.2.3.2]								
C	comments:								
ζ	Checked by:								
F	Place:				Sigr	ature:			
۵	Date:								
-	īme:								

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*IF ANY QUESTION IS ANSWERED WITH A "NO", DO NOT ACCEPT THE SHIPMENT AND GIVE A DUPLICATE CO OF THIS COMPLETED FORM TO THE SHIPPER.

DANGEROUS GOODS CHECK LIST FOR A RADIOACTIVE SHIPMENT

The recommended check list appearing on the following pages is intended to verify shipments at origin. Never accept or refuse a shipment before all items have been checked.

is the following information correct for each entry?

SHIPPER'S DECLARATION FOR DANGEROUS GOODS (DGD)

	Y	ΈS	NO*	N/A
1. Two copies in English and in the IAT format (8.1.1, 10.8.1.2, 10.8.1.3, 9.1.1.2)	A			
2. Full name and address of Shipper (10.8.3.1)		0		
3. Full name and address of Consignee (10.8.3.2)	•.	□ :		
4. If the Air Waybill number is not shown, enter itl (10.8.3.3)		D.		
5. The number of pages shown (10.8.3.4)				
6. If full name of Airport or City of Depa ture or Destination is not shown, enter it! (10.8.3.6 and 10.8.3.7)	r- 9r	٥		
7. The non-applicable Aircraft Type deleted (10.8.3.5) and the word "Non Radioactive" deleted (10.8.3.8)		0		
Identification	• •	•		
8. Proper Shipping Name (10.8.3.9.1, Step 1)				
9. Class 7 (10.8.3.9.1, Step 2)			\Box	
10. UN Number, preceded by prefix (10.8.3.9.1, Step 3)				·
11. Packing Group if required for Subsidi ary Risk (10.8.3.9.1, Step 4)	-			
12. Subsidiary Risk (10.8.3.9.1, Step 5)				
Quantity and Type of Packing				
13. The words "Radioactive Material" if not included in the Proper Shipping Name (10.8.3.9.2, Step 6)				
14. Name or Symbol of Radionuclide(s) (10.8.3.9.2, Step 6)				
 A description of the physical and chemical form, or Special Form, if no included in Proper Shipping Name (10.8.3.9.2, Step 6(c)) 	t		0	
16. The group for LSA and SCO (10.8.3.9.2, Step 6)			Ο	
17. The number and type of packages and the activity in Becquerels in each package, or for Fissile Material the total weight in grams or kilograms of fissile material may be shown in plac of activity (10.8.3.9.2, Step 7)				
 For different individual radionuclides, the words "All packed in one" (10.8.3.9.2. Step 7) 			۵	

•			YES	NO*	N/A
ages (Table	ain limits for Type A 10.4.A) or Type B propetent authority o	(see	. 🗖		
DGD (10.8.	rpack used" shown 3.9.2, Step 8)	on the +			
Packing Instru 21. Category of (10.8.3.9.3,	f package(s) or ove	rpack			
22. Transport li	ndex and dimension and Category III or		· []]		[]]
23. "Fissile Exc	epted" (10.8.3.9.3,	Step 9)			
of the docu	n marks shown and ment in English atta the following (10.8.	ached			
	l Form approval cer package design aj ate				
 Type B approv 	I(M) package shipm al certificate	ient			ľD ′
Fissile	material package d al certificate	esign			
	material package s al certificate	hipment	Ċ		
— Specia	I Arrangement ship al certificate	ment			
25. Additional (10.8.3.11)	Handling Informat	llon			
	Title of Signatory, ndicated (10.8.3.12				
	of Shipper (10.8.3.1 nt or alteration sign).8.1.6)				
shows: "Da	ing Information bo ngerous goods as i hipper's Declaration	per			
•	raft Only, if applicat	le			
31. Number of packages of	dangerous goods p of dangerous and no in one shipment (10	on-			
32. Number an	AND OVERPACKS d type of packaging delivered as shown	js and			
(10.6.2.1.1	ransportation seal .2, 10.6.2.2.6) and j ondition for carriage 1.1.4)	oackage e			

	YES NO* N/A		YES	NO* N//
Markings 34. Package boars Type A (10.7.1.3.3)		42. All labels correctly affixed and irrelev- ant marks and labels removed (10.7.4.1)		
 Package bears Type B(U) or Type B(M) and approval mark corres- ponding to the certificate (10.7.1.3.4) 	n n n	For Overpacks 43. If "Type A", "Type B(U)" or "Type B(M)" not visible, the required	Ο	
36. The Proper Shipping Name and UN Number (10.7.1.3.1)		statement shown (10.7.1.4.2) 44. Conditions of 10.7.3.4 complied with	{"}	17 17
37. The Name and Address of the Ship- per and Consignee (10.7.1.3.1)		GENERAL	1,1	
38. The permissible gross mass if it exceeds 50 kg (10.7.1.3.1))		45. State and Operator variations complied with as per 2.9	E	
Labelling		46. The Emergency Response Telephone Number as required by USG-12		
39. Two correctly completed Radioactive labels on opposito sides (10.7.4.3.1; 10.7.3.3)		47. For Cargo Aircraft Only shipments, a cargo alrcraft oporates on all soctors		
40. The Subsidiary Risk labels, without Class or Division Number (10.7.3.2)		 For packages containing Carbon diox- Ide solid (dry ico), have the marking, labelling and documentary require- 	C	00
41. Cargo Aircraft Only labol, if required, adjacent to the Hazard labels (10.7.4.2.3; 10.7.4.4.1)		monta boon applied (Packing Instruc- tion 904 and 7.2.3.9)		

Commonts:

Chocked by:

Placo:

Date:

Time:

* IF ANY QUESTION IS ANSWERED WITH A "NO" DO NOT ACCEPT THE SHIPMENT AND GIVE A DUPLICATE COPY OF THIS COMPLETED FORM TO THE SHIPPER.

Signaturo:

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SHIPPER'S D	ECLARATION FO	R DANGI	EROUS GO	DODS		QUESTION 1	: MAX	:25 MA	
Shipper 210 LO	STIN CHEMIC DEASTGATE C DNDON WC.1 NITED KINGDO	Ĺ				Air Waybill No. 777 111 1111 Page 1 of 1 ^{Pages} Shipper's Reference Number (optional)			
26 : CH	NOSHITA HEA SUZUKI TOWI HYODA KU, TO PAN	ERS	USTRII	ES					
	d signed copies of thi	s Declarati	on must		WAR	NING			
be handed to the op						lure to comply in all respec			
This shipment is w limitations prescrib (delete non-applica PASSENGE AND RGO	vithin the Ai bed for: able)	rport of De	parture:		the Dec con	ngerous Goods Regulations applicable law, subject to slaration must not, in any npleted and/or signed by warder or an IATA cargo a	legal penal y circumsta a consol	ties. This ances, be	
Airport of Destinat	tion: TYO				1 1	nent type: (delete non-applica NON-RADIOACTIVE RAD			
NATURE AND Q	UANTITY OF DAN	GEROUS	GOODS						
Danger	rous Goods Identifica		*****		,,				
Proper Shippin	ng Name	Class or Divi- sion	1	Pack- ing Group	Subsi- diary	Quantity and type of packing	Packing Inst.	Authorizatio	
AMYLAMINE	2	3	1106	3	8	1 1D X 60L	310		
Additional Handli	ing Information					<u>i</u>	I		
rigginoma fiangn	and an officer officer								
accurately descri classified, packag respects in prope	that the contents of ibed above by the pa ged, marked and la er condition for tran d national governme	roper ship) belled/plac sport acco	ping name, carded, and ording to aj	and are l are in al		Name/Title of Signatory Mike Charlton, M Place and Date London, 1 JAN 2 Signature (see worning of	0.04	1	

ст., ...

	<u> </u>				1:777 1111 11	
Airport of Destination			Reques	sted Flight Date	Amount of Insurar	ice INSURANCE
TOKY), NARI	ΤА	CX711	Jan.20		
Handli	ng Inform	ation			······	· ····
Dang No. of Pieces RCP	Gross Weight	kg	s in CARGO	AIRCRAFT Rate Charge	ONLY Total	Nature and Quantity of Goods (incl. Dimensions of Volume



SHIPPER'S DECLARATION FOR DANGEROUS GOODS

QUESTION 2 : MAX 25 MARKS

Shipper NZ CHEMICAL 71 TITIRANGI F AUCKLAND NEW ZEALAND Consignee DU POINT INC 400 7TH AVEN NEW YORK C USA	COAD CORP UE		· · · · · · · · · · · · · · · · · · ·	Page	Vaybill No. 777 2222 2 1 of Pages per's Reference Number (<i>optional</i>)	222		
Two completed and signed copies of be handed to the operator TRANSPORT DETAILS This shipment is within the	f this Declarat			Fai Da: the	RNING lure to comply in all respen ngerous Goods Regulation applicable law, subject to	s may be in legal pena	n breach of alties. This	
limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIRCRAFT AIRCRAFT	AUC	KLAND		Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Destination: NEV	V YORK	GOODS			nent type: (delete non-applica NON-RADIOACTIVE RAD	ble) NGATAN		
Dangerous Goods Identif			••			ļ		
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization	
SODIUM ARSENATE	6	UN1685	п		5 kg	613		
SODIUM ALUMINATE	8	UN2812	Π		5 kg	282		
SHALE OIL	3	UN1288	п		1.8	305		
					ALL PACKED IN ONE 4G			
					Q = 0.76			
Additional Handling Information								
I hereby declare that the contents accurately described above by the classified, packaged, marked and respects in proper condition for to International and national govern	proper ship labelled/plac ansport acco	ping name, a carded, and a rding to app	and are are in al		Name/Title of Signatory ROGER R Place and Date AUCKLA Signature (see warning al			

QUESTION 2 : 777 2222 2222

Airport	of Destina	ntion	Reque	sted Flight Date	Amount	of Insurance	INSURANCE
NEW Y	ORK		SQ	Jan.2			
Handlir	ıg Informa	tion					
Dang	erous a	as pe	er attached D	GD.			
No. of	Gross		Rate Class	Rate	Total		Nature and Quantity of Goods
Pieces RCP	Weight	њ	Commodity Item No.	Charge			(incl. Dimensions of Volume
1	16	к					



Shipper W C· F] Consignee	OKI MEYER /ERKSTRASSI -9099 MUNSTI RANKFURT, (ER GERMANY	7	Air Waybill No. 777 3333 3333 Page 1 of 1 Pages Shipper's Reference Number (optional)					
Two completed be handed to th TRANSPORT This shipment i	and signed copies of e operator DETAILS s within the	f this Declarat Airport of D			Fai Dau the	NING lure to comply in all resp ngerous Goods Regulatio applicable law, subject t	ns may be in o legal pena	n breach of lties. This	
limitations pres (delete non-app PASSENGER AND CARGO AIRCRAFT	licable)	FRANKF	URT		Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Dest	ination: MUMBAI					nent type: (delete non-applic NON-RADIOACTIVE, RA			
*******	O QUANTITY OF E		GOODS				i		
Proper Ship		Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorization	
RADIOACT SPECIAL F	FIVE MATERI ORM	AL 7	UN2974			CS-137 1 TYPE A PACKAGE x 1.5 TBQ	Ti 0.38 Dims:	Special Form Approval Cert. No.20 attached	
Additional Har	ndling Information								
accurately des classified, pac respects in pro	are that the content scribed above by th kaged, marked an oper condition for t and national gover	e proper ship d labelled/pla transport acco	ping name, carded, and ording to ap	and are are in a plicable			k Abe, MA kfurt, Jar		

QUESTION 3 : 777 3333 3333

Airport	of Destin:	ution	Request	ed Flight Date	Amou	nt of Insurance	INSURANCE
MUMB	AI		LH221				
Handlin	g Inform	ntion					
Radic	active	mat	erial as per att	ached DGD.			
No. of Pieces RCP	Gross Weight	kg Ib	Rate Class Commodity Item No.	Rate	Total		Nature and Quantity of Goods (incl. Dimensions of Volume
1	58	k					
				<u>_</u>		+	



Q4. Decode the following 'symbol and abbreviation': (1 mark each)

Symbol & Abbre.	Decoding
PPR	

Q5. Quote 1 shipper's specific responsibilities Paragraph Number. (1 mark)

Paragraph No.		
---------------	--	--

- Q6. A shipment of ACETONE is contaminated with rain water. Test indicates that the new FP & IBP are 50oC & 40oC respectively. What is the new Proper Shipping Name & UN No.? (1 mark)
- Q7. Fill in the blank box with TYPE A or TYPE B: (1 mark each)

Symbol	Form	Activity	TYPE A or B
Cs-129	A1	5 Tbq	
I-131	A2	0.01 Tbq	

Q8. Fill in the Packing Group:(1 mark each)

Oral Toxicity LD50 (mg/Kg)	Packing Group
8 mg/Kg	
100 mg/Kg	

Q9. Fill in the Packing Group:(1 mark)

Exposure Time	Packing Group
15 minutes	

Q10. Mark out the package which must not be included in this over-pack (1 mark)

UN2904	UN2667
UN1438	UN1152

Q11. Fill the blank: (1 mark each)

T.I 3	Surface Radiation Level 60 uSv/hr	Category of Label
1.2	0 uSv/hr	

Q12. Fill in the Packing Group: (1 mark)

FPoC	IBP	PG
10	40	

- Q13. When is UN2217 'not dangerous'? (1 mark)
- Q14. TRUE or FALSE? Quote a Reference No. to support your answer. (1 mark each. No mark if there is no or incorrect Reference No.)

No	Information	T/F	Reference
1.	Aerosol of Div.2.1 is permitted in LTD QTY		
2.	Explosive is not permitted as Excepted Quantities		
3.	DG in LTD QTY package is permitted into France		
4.	Japan Airlines accepts all toxic substances.		
5.	UN1845 must be packed in airtight container		
6.	Charcoal Wet is forbidden under any circumstances		
7.	Absorbent material is required when packing UN2874		
8.	DG packages must withstand changes in temperature pressure and vibration		
9.	A shipper may ship RIS through the Post Office		-
10.	Type B(M) shipment must be shipped on CAO		
11.	DEAD OIL is a Proper Shipping Name		











●* Table 9.3.A made simple;

DG REFRESHER - 2001

Major changes effective 2001 w.e.f. July 01

•* Class 7 introduces the Criticality Safety Index for shipment of fissile materials and which must be indicated onto the DGD. This shipment must also bear the CSI label

Type C Packaging introduced. This is more stringent than Type B's.

So what are we going to do ...

- Share with us your experiences,
- Practice on the checklists;
- Practice on the General Exercise
- Ask questions if any doubt;
- Be aware of the local CAA's rules;
- F Attend exhibition, seminar, e.t.c. when
- the opportunity arises.



© Credible, professional ... translate into prosperity & recognition.



DG REFRESHER - 2001

DGR GENERAL EXERCISES-2001

1. Fill in the blank:

Number in DGR	UN or ID No?
0079	
8038	

2. Fill in the "Category" for these RAM:

TI	Surface radiation	Cat:
0	100 usv	
7	3 usv	· - · · · · · · · · · · · · · · · · · ·
2.5	0	
0.9	570 usv	

3. Fill in the "PG" for these RCM:

Exposure Time	Observation Time	PG
2 min	-	
1hr 15mins	10 days	
30 min	5 days	
5 min	1 hr	

4. Fill in TYPE A or TYPE B:

Radionuclide	Form	Activity	Type A/ B
Ba-131	A1	5 Tbq	
Ra-223	A2	1 Tbq	
11-C	A1	0.01Ci	

5. Fill in the "PG" for these toxic items

э

Toxicity	LD50 mg/kg or LC50 mg/L	PG
Oral	40	
Dermal	2	
Oral	60	
Inhalation	1	

6. Are the following classes/divisions allowed in the same over-pack? Put an 'x' in the appropriate column.

Classes/Division	YES	NO
5.1 & 6.1		
3 & 1.4G		
4.2 & 8		
1.4S & 3		

7. What entry is required in the "Nature and Quantity of Goods" box of the Airway bill when sending an *emptied Type A cylinder used for radioactive material?*

- 8. UN2811 with an Inhalation toxicity of PG I is to be shipped on a CAO. What is the maximum net quantity per package?
- 9. Decode the following symbols & abbreviations:

Code/symbol		Decoding
n.o.s		
RCM	-	
Y		
<		
LTD QTY		
kg		· · · · · · · · · · · · · · · · · · ·

10. Fill in the "PG" for these RFL:

FP	IBP	PG
-22	38	
20	40	
70	30	
10	35	
60	50	

- 11. HEXADIENE is contaminated with rain water. Test indicates that the FP & IBP are now 50 & 60 degrees C respectively. What would be the NEW Proper Shipping Name?
- 12. A used motorcycle (unpacked) is to be shipped by air. Which hazard label must be affixed?
- 13. Quote 1 Shipper's Specific Responsibilities Paragraph No.:

PARA. NO._____

yet es

14. Fill in the NOPIC with these information:

FLT NO: BB009...to-day...PAX A/C

A/C N	NO;	VHBB	Α		
ITIN:	:	SYD-H	IKG		
AWB NO	PCS	UN NO.	NET QTY/PKG	TI/CAT	LOADING POSITION
0001	1	1088	5L		A51
0003	2	1586	10Kg		A52
0005	1	2982		0.5/II	AVE22331BB
0007	1	1910	20Kg		PAP56781BB

~

15. Which package must not be included in this over-pack?

<i>.</i>					
	UN1919	UN1486	UN1417	UN2730	

16. What is the minimum separation distance for the followings?

TI	Min. distance (Passenger's aircraft) in m.
4.3	
9.0	

17. Fill in the distance:

Before:

<u>After:</u> What is the horizontal separation distance between these 2 packages on a B747?

1





18. True or False and quote a reference no.

		T/F	Reference
1	A 4ft drop test is conducted on LTD QTY Pkg.		
2	A 6HC is a composite packaging		
3	Salvage Packaging is used to repack damaged DG		
4	MAG is permitted in Excepted Quantities		
5	Aerosol of Div.2.1 is not permitted in Ltd Qty.		
6	No absorbent material is required for UN1088 in		
	passenger aircraft		
7	3-Pentanol is a proper shipping name.		
8	Japan Airlines accept Fissile Radioactive packages.		
9	RCL label is mandatory for UN1977		
10	DG packages must be able to withstand changes in		
	temperature, net quantity and vibrations		
11	Refrigerators may contain liquefied gas		
12	RIS may be posted as Post Office Mail		
13	Packages containing Dry Ice must be airtight		
14	COKE, HOT is forbidden in aircraft under any		
	circumstances		
15	This marking UN 1A2T/Y200/S/01 GB/AS is called	1	
	SALVAGE PACKAGING		
16	Type B(M) radioactive must be carried in CAO		
17	Sub-risk labels must show Class number from July		
	01, 2001		
18	Freight container containing Radioactive must be		
	label on two opposite sides.		1
19	The current addition of the DGR is base on the		
	ICAO Technical Instructions		
20	Shipper must insert 24hr emergency response		
	telephone contact number in the Handling		
	Information box of the DGD	1	l

END OF PAPER/PREPARED BY Anselmn Tan of ANSELMN CONSULTANTS

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper	EUMEX TRADING 100 NATHAN ROA DURBAN SOUTH AFRICA				Air Waybill No. 777 0000 0001 Page 1 of 1 ^{Pages} Shipper's Reference Number (optional)			
Consignee KACIDO SDN BHÐ 90 JALAN TUNKU ABDUL RAHMAN KUALA LUMPUR MALAYSIA								
Two complete be handed to t	d and signed copies of this he operator	Declarat	ion must			RNING		
TRANSPOR						lure to comply in all re ngerous Goods Regulat		
This shipment limitations pre (delete non-ap PASSENGEE AND CARGO AIRCRAFT	escribed for: applicable)	port of D	eparture:		the Dec cor	applicable law, subjec claration must not, ir npleted and/or signed warder or an IATA carg	t to legal pent any circums by a conso	alties. This stances, be
Airport of Destination: KUL					Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE			
NATURE AN	D QUANTITY OF DANC	BEROUS	GOODS		1			
Da	ngerous Goods Identificati	on					1	
Proper Shi	pping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorizatio
WEAPON	ARTRIDGES FOR S ing purposes)	1.4	0014			1 4C1 23 Kg	130	Certificat of approv from Con Of the South African Police attached.
	are that the contents of t	his consig	ment are	e fully and		<u></u>		
classified, pa respects in p	escribed above by the pro- ckaged, marked and lab roper condition for trans l and national government	elled/plac port acco	carded, and reing to a	d are in a		Name/Title of Signat Mike Channon , Place and Date Durban , 1 Jan (Signature (see warming)	Manager	hr

t of Destin	ation	Request	Requested Flight Date		int of Insurance	INSURANCE
A LUMF	UR	SA122	Jan 03			
ng Inform	ation					
	-					
		Rate Class Commodity Item No.	Rate Charge	Total		Nature and Quantity of Goods (incl. Dimensions of Volume
25	к					
	A LUMF ag Inform Cerous § Gross Weight	A LUMPUR ag Information erous good Gross kg Weight lb	A LUMPUR SA122 ag Information cerous goods Gross kg Rate Class Weight lb Commodity Item No.	A LUMPUR SA122 Jan 03 ag Information errous goods Gross kg Rate Class Rate Weight lb Commodity Item No. Charge	A LUMPUR SA122 Jan 03 ag Information Gross kg Rate Class Rate Total Weight lb Commodity Item No. Charge	A LUMPUR SA122 Jan 03 ag Information Gross kg Rate Class Rate Total Weight lb Commodity Item No. Charge



777 0000 0001

Shipper CHEMICAL & 25 25 THE PLAZA SCOTT ROAD SINGAPORE		ERY PI	E LTD	Air Waybill No. 777 0000 0003 Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee NIHON JUSHA 3-CHOME, NE OSAKA JAPAN								
Two completed and signed copies of be handed to the operator	f this Declard	tion must		WAF	INING			
TRANSPORT DETAILS	•				lure to comply in all rea ngerous Goods Regulat			
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENCER CARGO AND CARGO AIRCRAFT ARCCAFT ONLY	Airport of I SIN	Departure:		the Dec cor	applicable law, subjec claration must not, in npleted and/or signed warder or an IATA carg	t to legal pena any circumst by a consol	lties. This ances, be	
Airport of Destination: OSA	F		Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE					
NATURE AND QUANTITY OF D	ANGEROUS	S GOODS		I		·		
Dangerous Goods Ident	ification						*****	
Proper Shipping Name	Class or Divi- sion	or	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization	
ALLYL GLYCIDYL ETH	IER UN 2219	3	Ш		11A2 100L	310		
Additional Handling Information I hereby declare that the contents accurately described above by th classified, packaged, marked and	e proper ship	ping nam	e, and are		Name/Title of Signato	-	1ANAGER	
classified, packaged, marked and respects in proper condition for t International and national gover	ransport acc	ording to		A	Place and Date JIMI SINC Signature (see warnin		AN 01, 200	

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SHIPPER'S DECLARATION FOR DANGEROUS GOODS

					77 0000 00		
Airport o				ested Flight Date	e Amou	unt of Insurance	INSURANCE
Handling	g Inform:	ation		I	I	, <u> </u>	
Dange	rous a	as pe	r attached D	GD.			
	Gross Weight		Rate Class Commodity Item No.	Rate	Total		Nature and Quantity of Goods (incl. Dimensions of Volume
1	105	k	j				



SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper CHEMAG I 1141 MAIN TAIPEI TAIWAN Consignee SOMCHAI 20 SILOM BANGKOI THAILAN	ST CHEMICAI ROAD K	LTD		Page	Vaybill No. 777 0000 1 of 1 Pages ber's Reference Number (<i>optional</i>)	0004			
Two completed and signed copi be handed to the operator	es of this Declarat	tion must		WAF	INING				
TRANSPORT DETAILS					lure to comply in all res				
This shipment is within the limitations prescribed for: (delete non-applicable)PASSENGER AND CARGO AIRCRAFT AIRCRAFTCARGO AIRCRAFT ONLY	Airport of D TAIPE	-	the Dec con	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
Airport of Destination: BA	NGKOK			Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE					
NATURE AND QUANTITY O	F DANGEROUS	GOODS							
Dangerous Goods Id	entification			.					
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization		
CHLOROSILANCES, WATER-REACTIVE, FLAMMABLE, n.o.s	UN 2988	4	1	38	1 STEEL 1L	408			
Additional Handling Informatic	n								
I hereby declare that the cont accurately described above by classified, packaged, marked respects in proper condition f International and national go	the proper shipp and labelled/plac or transport acco	ping name arded, an rding to a	, and are d are in al		Name/Title of Signator FREDERICK Place and Date TAIPEI J Signature (see warning F.L.	LEP, MAN			

Airport	of Destin	ation	Reque	sted Flight Date	Am	ount of Insurance	INSURANCE		
BANG	KOK		CI	JAN 03					
Handlin	ng Inform	ation			······		· · · · · · · · · · · · · · · · · · ·		
See a	ttached	DO	BD.						
No. of Pieces	Gross Weight	kg		Rate	Total		Nature and Quantity of Goods		
RCP	weight	ID	Commodity Item No.	Charge			(incl. Dimensions of Volume		
1	3	k							



777 0000 0004

	OLSEN PHOTO 23-5K WILLIE OSLO NORWAY		AB.		Air Waybill No. 777 0000 0008 Page of 1 Pages Shipper's Reference Number (optional)					
Consignee	HA LONG IM 123 HAIPHON HANOI VIETNAM		\$							
Two complete be handed to t	d and signed copies of the operator	f this Declarat	ion must		WAF	RNING				
TRANSPOR	· · · · ·					lure to comply in all re				
This shipment limitations pro (delete non-ap PASSENGEI AND CARGO AIRCRAFT	escribed for: pplicable) R CARGO	Airport of D OSLC	-	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.						
Airport of Des		HANOI				nent type: (<i>delete non-app</i> NON-RADIOACTIVE,	ulicable) RADIOAETIVI			
NATURE AN	D QUANTITY OF D	ANGEROUS	GOODS		<u> </u>					
Da	ngerous Goods Identi	fication								
Proper Shi	ipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization		
Battery f	luid, acid	8	UN2796	Π		14G 1L	809			
I hereby decl accurately de	ndling Information	e proper shipp	ping name,	and are		Name/Title of Signate Je Place and Date	ory sper Mann,	Manager		
respects in p	roper condition for t l and national govern	ransport acco	rding to ap			1	slo, 01/01/01 TEN	Celt		

8

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

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				777	0000 000)8	
Airport	of Destin	ation	Reque	sted Flight Date	Amount	t of Insurance	INSURANCE
HANOI			SK80	JAN01			
Handlir	ng Inform	ation					· · · · · · · · · · · · · · · · · · ·
No. of	Gross	kg		hed DG.	Total		Nature and Quantity of Goods
Pieces RCP	Weight	lb	Commodity Item No.	Charge			(incl. Dimensions of Volume
1	3	k					



SHIPPER'S DECLARATION FOR DANGEROUS GOODS

- .

Shipper MALEV PTE LTI 9 HAMPER ROA BUDAPEST HUNGARY				Air Waybill No. 777 0000 0009 Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee CHEVRON CI #02-02 SHAW SINGAPORE		LTD						
Two completed and signed copies of be handed to the operator	f this Declarati	ion must		WAF	INING	··· <u>-</u>		
TRANSPORT DETAILS					lure to comply in all respect			
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIRCRAFT AIRCRAFT	Airport of Do	_ Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.						
Airport of Destination:					nent type: (delete non-applicab NON-RADIOACTIVE RADI		E	
NATURE AND QUANTITY OF D	ANGEROUS	GOODS		l				
Dangerous Goods Identi	fication					1		
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorization	
Cosmetics n.o.s.	9	UN8000			2 wooden boxes x 25k	g 910		
Additional Handling Information I hereby declare that the contents accurately described above by the classified, packaged, marked and respects in proper condition for to International and national govern	e proper shipp l labelled/plac ransport acco	oing name, arded, and rding to ap	and are are in al		Name/Title of Signatory Zsa Gal Place and Date Signature Budape		nageress	

				7'	77 0000 0	009	
Airport	of Destin	ation	Reque	sted Flight Dat	e Amo	unt of Insurance	INSURANCE
Singapo	re		SK8190	JAN.02			
Handli	ng Inform	ation					
Dang	erous	goo	ds as per attac	hed DGR.			
No. of Pieces	Gross Weight	kg	Rate Class Commodity	Rate	Total		Nature and Quantity of Goods (incl. Dimensions of Volume
RCP	w eight	10	Item No.	Charge			(Incl. Dimensions of Volume
2	50	k					



SHIPPER'S DECLARATION FOR DANGEROUS GOODS

^{Shipper} Pragas Kandas 678 Vikram Sa Mumbai India		/an	· .	Air Waybill No. 777 0000 0010 Page 1 of 1Pages Shipper's Reference Number (optional)				
^{Consignee} Robert Maurou 168 Rue de le M Auckland New Zealand								
Two completed and signed copies be handed to the operator	of this Declara	tion must		WAI	RNING			
TRANSPORT DETAILS					lure to comply in all response			
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIR RAFT AIR CRAFT	Airport of D Mumba	-	the De cor	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Destination:	- <u>-</u>		11	n ent type: (<i>delete non-applic</i>. NON-RADIOACTIVE RA				
NATURE AND QUANTITY OF	DANGEROUS	GOODS		. I				
Dangerous Goods Iden	tification							
Proper Shipping Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization	
Sodium Nitrite	5.1	UN1500	111		12 kg	516		
Triallyl Borate	6.1	UN2609	П		12L	611		
Safety Matches	4	ID1944	3		5L All packed in one wooden box Q = 0.88	440		
Additional Handling Information		<u>.</u>	******			<u>.</u>	<u>.</u>	
I hereby declare that the content accurately described above by th classified, packaged, marked an respects in proper condition for International and national gover	e proper shipp d labelled/plac transport acco	oing name, arded, and rding to app	and are are in al	1	Place and Date	amy, Ma i, 1 JAN 2	0	

Airport of Destin	rport of Destination Reque			Amount of Insurance	INSURANCE
AUCKLAND		NZ890	Jan 02		
Handling Inform	ation				
DGD attach		nte Class	Rate	Fotal	Nature and Quantity of Goods
Pieces Weight RCP		Commodity Item No.	Charge	. otar	(incl. Dimensions of Volume
1 32	k		1		



777 0000 0010

SHIPPER'S DECLARATION FOR	DANGEROUS GOODS
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90 Be	an Yang Comp.) Xiao Xiao Lu 2ijing R China	any			Air Waybill No. 777 0000 0011 Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee	Roberto Ma 53 Via Vener Rome Italy								
Two completed a be handed to the	and signed copies of copies of copies of the	f this Declard	ition must		WAI	RNING			
TRANSPORT	· ·				Fai	lure to comply in all re	spects with the	he applicabl	
This shipment is limitations presc (<i>delete non-appl</i> PASSENGER AND CARGO AIRCRAFT	ribed for:	∧irport of I Beijing	Departure:	the De cor	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Destir	nation: Rom	ie		11	nent type: (<i>delete non-app</i> NON-RADIOACTIVE,		E		
	QUANTITY OF D erous Goods Identi		GOODS		· ·				
Proper Shipp		Class or Divi- sion	or	Pack- ing Group	diary	Quantity and type of packing	Packing Inst.	Authorizatio	
OCTYL A	LDEHYDES	3	UN119	ш		6L	309		
PHENOLA	ATES	8	UN2905	111		10	822		
SODIUM A	AZIDE	6	UN1687	Π		10 Kg	613	*	
						All packed in one 4G			
Additional Hand	ling Information					Q = 0, 9			
	an ontanon								
accurately desc. classified, packs respects in prop	e that the contents ribed above by the aged, marked and ser condition for to nd national govern	proper ship labelled/pla ansport acco	ping name, carded, and ording to ap	and are are in al		Place and Date	ing 1 Jan	2001	

777 0000 0011

Airport ROME	of Destina	tion	Requi	ested Flight Dat	e Amo	unt of Insurance	INSURANCE
Handlin	ng Informa	tion	-	I	. J	I	
Dang	erous g	ood	S				
No. of	Gross	kg		Rate	Total		Nature and Quantity of Goods
	Weight	њ	Commodity Item No.				(incl. Dimensions of Volume
Pieces RCP			Item No.	Charge			



GAWAT MRIN RAT			Page	Air Waybill No. 777 0000 0013 Page of Pages Shipper's Reference Number (optional)						
NC INDUS 9 ND	FRIES									
f this Declarat	ion must		WAI	RNING						
Airport of D	eparture:	the De cor	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.							
L						E				
ANGEROUS	GOODS									
fication					1					
Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization				
3	UN1114	IJ		60L						
e proper shipi i labelled/piac ransport acco	ping name, arded, and rding to ap	and are are in al		Jakarta, 0	1/01/01					
	MRIN AT NC INDUS 9 ND f this Declarat Airport of D AIRPORT of D Class or Divi- sion 3 3	MRIN AT NC INDUSTRIES 9 ND of this Declaration must Airport of Departure: Airport of Departure: ANGEROUS GOODS fication Class UN or or Divi- Divi- Sion No. 3 UN1114	MRIN AT NC INDUSTRIES 9 ID If this Declaration must Airport of Departure: Airport of Departure: ANGEROUS GOODS fication Class UN Pack- or OT Divi- ID Sion No. 3 UN1114 II as of this consignment are fully and are in all ransport according to applicable	MRIN Page AT Page Shipp Shipp NC INDUSTRIES 9 ID WAN f this Declaration must WAN f this Declaration must WAN Airport of Departure: Declaration Airport of Departure: Declaration Shipn Shipn ANGEROUS GOODS Subsi- or ffcation Subsi- or ANGEROUS GOODS Group Risk Subsi- or J UN ANGEROUS GOODS Fication 3 UN1114 II II A J J UN1114 II II A III J J J UN1114 II II A IIII J J J J J UN1114 II III J IIII J J J J	MIRIN Image in the synthetic for the s	MRIN Image: Arr Sector 1// 0000 0013 Arr Page of Pages Shipper's Reference Number (optional) VC INDUSTRIES 9 ID Failure to comply in all respects with to Dangerous Goods Regulations may be the applicable law, subject to legal pen Declaration must not, in any circum completed and/or signed by a const forwarder or an IATA cargo agent. Airport of Departure: Shipment Ivme: (delete non-applicable) NON-RADIOACTIVE RADICACTIVE RA				

Airport of Destin						
-	ation	Reque	ested Flight Dat	e .	Amount of Insurance	INSURANCE
ZURICH		SR890	JAN 01			
Handling Inform	ation		· · · · ·			
As per attac	hed]		Rate	Tota	1	Nature and Quantity of Goods
Pieces Weight RCP	lb	Commodity Item No.	Charge			(incl. Dimensions of Volume
1 610	к					· ·



777 0000 0013

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper Sache & Sache 18 Peel St Manchester United Kingdom						Vaybill No. 777 0000 (1 of 1 Pages per's Reference Number (optional)	0015				
Consignee RAM System: Laussance 10 CH1008 Zurie Switzerland	-	þ									
Two completed and signed copies of be handed to the operator	of this Dec	clarat	ion must		WAI	RNING					
TRANSPORT DETAILS						lure to comply in all respense process Goods Regulation					
This shipment is within the limitations prescribed for: (delete non-applicable) Airport of Departure: PASSENGER AND CARGO AIRCRAFT CARGO AIRCRAFT Manchester						Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
Airport of Destination: Zurich					Shipment type: (delete non-applicable) NON BADIOACTIVE RADIOACTIVE						
NATURE AND QUANTITY OF I	DANGER	OUS	GOODS								
Dangerous Goods Ident	ification										
Proper Shipping Name	C Di	lass or vivi- on	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization			
RAM, special form, n.o.s		7	UN2974			CS-137 1 Type A package x 0.9 TBq	I white	Special Form Approval Cert. No.02 attached			
Additional Handling Information											
I hereby declare that the contents accurately described above by th classified, packaged, marked and respects in proper condition for t International and national gover	e proper s I labelled ransport	shipj /plac acco	oing name, a arded, and a rding to app	und are tre in all		Place and Date Manche Signature	s Nikka, ester, 1 JA likka	Manager AN 2001			

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		tion	Reques	ted Flight Date	Amount of Insurance	INSURANCE
ZURICH			BA899	JAN.02		
Handling	Inform	tion				
r	as per Gross		ached DGD.		m	
Pieces	Weight	-	Commodity		Total	Nature and Quantity of Goods (incl. Dimensions of Volume
RCP			Item No.	Charge		
1	3	к				

777 0000 0015



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SHIPPER'S DECLARATION FOR DANGEROUS GOODS

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Y.		TAIWAN POWI 99 OMEI ST TAIPEI TAIWAN	ER LTD	Page	Air Waybill No. 777 0000 0016 Page ¹ of Pages Shipper's Reference Number (optional)							
	Consignee	AUSSIE NUC 90 WOOLOO SYDNEY, N.S AUSTRALIA	MOOLOO S.W.									
	Two complete be handed to	ed and signed copies of the operator	of this Declarat	tion must		WAI	RNING					
1.		T DETAILS					ilure to comply in all respect operants Goods Regulations					
	This shipmen limitations pr (delete non-aj		Airport of D TAIPI	-		the De cor	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.					
	PASSENGER CARGO AND CARGO AIRCRAFT AIRCRAFT ONLY			CL		101		gem.				
				EY			nent type: (delete non-applical NON-BADIOACTIVE RAD					
	NATURE AN	ND QUANTITY OF E	DANGEROUS	GOODS			······································					
	Da	angerous Goods Identi	ification					1				
	Proper Shipping Name		Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Autho Inst.	rization			
	RADIOA MATER OTHER		7	UN2982			OSMIUM-185 1 Type A package x 1 TBQ	II YELLOW TI =0.33 DIMS: 40X40 X40CM				
	accurately do classified, pa respects in p	s of this consig e proper shipp d labelled/plac ransport acco	ping hame, arded, and rding to ap	and are are in al		Name/Title of Signatory BERN/ Place and Date Signature TAIPEI, 01/0	ARD CHEN 01/01					
	LINE HALLUIA	l and national govern						Jen	5			





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SHIPPER'S DECLARATION FOR DANGEROUS GOODS

8 H	COMB PTE 1 ANG LOON(NG KONG				Page	Waybill No. 777 000 1 of Pages per's Reference Number (optional)	0 0017			
U	FIJI HEAVY 1104 COMO BUENOS AI ARGENTIN	DOR PED RES								
Two completed an be handed to the o	d signed copies of	f this Declara	tion must		WAI	RNING				
TRANSPORT DI					- Fai	lure to comply in all re	spects with t	he applicable		
This shipment is within the limitations prescribed for: (delete non-applicable) Airport of Departure: PASSENGER CARGO AND CARGO AIRCRAFT AIRCRAFT ONLY						Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Destination: BUE						nent type: (<i>delete non-app</i>		E		
NATURE AND Q	UANTITY OF D	ANGEROUS	GOODS	<u> </u>	_ <u>l</u>		<u> </u>			
Danger	ous Goods Identi	fication								
Proper Shippin	g Name	Class or Divi- sion	UN or ID No.	Pack- ing Group	Subsi- diary Risk	Quantity and type of packing	Packing Inst.	Authorization		
RAÐIOACT MATERIAL FORM, n.o.s	, SPECIAL	7	UN2974			RADIUM-223 1 TYPE B (U) steel package x 3 Tbq	III Yellow TI 0.55	Special Form S303 & Package Design Cert. HKG87 attached		
Additional Handlin I hereby declare t accurately descrif classified, packag respects in proper International and	hat the contents bed above by the ed, marked and condition for tr	proper ship labelled/plac ansport acco	oing name, arded, and rding to ap	and are are in al			appy Kau, N Kong 01/0	- f/01		

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				7	77 0000 (0017	
Airport Buenos	of Destin	ation	Reque	sted Flight Dat	e Am	ount of Insurance	INSURANCE
Handlin	ng Inform	ation	······································				
DGD	attach	ed.					
No. of Pieces RCP	Gross Weight		Rate Class Commodity Item No.	Rate	Total		Nature and Quantity of Goods (incl. Dimensions of Volume
1	60	k					



DANGEROUS GOODS CHECK LIST FOR A NON-RADIOACTIVE SHIPMENT

The recommended check list appearing on the following pages is intended to verify shipments at origin. Never accept or refuse a shipment before all items have been checked. Is the following information correct for each entry?

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SHIPPERS DECLARATION FOR DANGEROUS GOODS (DGD)

		YES	NO*	N/A			YES	NO*	N/A
1.	Two copies in English and in the IATA format [8.1.1, 10.8.1.2, 10.8.1.3, 9.1.1.2]				18. Overpack			·	
2	Full name and address of Shipper		a		 Indication "Overpack Step 7] 		D		
3.	[8.1.6.1] Full name and address of Consignee		Q		 Compatible accordin [5.0.1.5.1 and 5.0.1.5] 	5.3]			
4.	[8.1.6.2]		_	-	 Multi-overpack marks per overpack (Fig. 8. 				
4.	Name and Telephone Number of a per- son responsible for Division 6.2 Infectious Substance shipment [8.1.6.2]	Ū	ū		[8.1.6.9.2, Step 7] Packing Instructions				
	· · ·	-	-		19. Packing Instruction Numb	or [9 1 6 0 2	—	5	
D. 4	If the Air Waybill number is not shown, enter it. [8.1.6.3]	Q	Q .	•	Step 8]	ei [0.1.0.9.3,	<u>u</u>		
6.	The number of pages shown [8.1.6.4]	ū			Authorizations				
7.	If full name of Airport or City of Departure or Destination is not shown, enter it. [8.1.6.6 and 8.1.6.7]	Q	Q		 Indication of "Limited Qua Qty." if "Y" packing instruct [8.1.6.9.4, Step 9] 		Q		
8.	The non-applicable Aircraft Type deleted [8.1.6.5]				21. The Special Provision Nu A51, A81 or A109 [8.1.6.9				Ū
9.	The word "Radioactive" deleted [8.1.6.8]	Q			22. Indication that governmer is attached, including a co				Q
lder	ntification				[8.1.6.9.4, Step 9]	py in English			
10.	Proper Shipping Name and the technical name in parentheses for asterisked en- tries [8.1.6.9.1, Step 1]	۵	Q		 Additional approvals for o [8.1.6.9.4, Step 9] 		G		
44	Class or Division, and for Class 1, the				Additional Handling Informat	ion			
	Compatibility Group [8.1.6.9.1, Step 2]	_			 For self-reactive and relat of Division 4.1 and organi 				Q
12.	UN or ID Number, preceded by prefix [8.1.6.9.1, Step 3]				Division 5.2, or samples the mandatory statement sho				
13	Packing Group [8.1.6.9.1, Step 4]				and 8.1.6.11.2]				
14	Subsidiary Risk [8.1.6.9.1, Step 5] (if ad- ditional labeling)	ū		۵.	25. Prior arrangement state tious Substances [8.1.6.1				
Qua	ntity and Type of Packing				 Name and Title of Signal Date indicated [8.1.6.12 a 				
15.	Number and Type of Packages [8.1.6.9.2, Step 6]	C	D		27. Signature of Shipper [8.1	.6.14]	Q		
16.	Quantity and unit of measure (net or gross, as applicable) per package [8.1.6.9.2, Step 6]			D	28. Amendment or alteration Shipper [8.1.2.6]	signed by	ū		
17.	If different dangerous goods are packed				AIR WAYBILL				
	in one outer packaging, are the following rules applied:				29. The Handling Informatio "Dangerous goods as per	attached Ship-			
	 Compatible according to Table 9.3.A. (note exception for chemical kits/first) 			ū	per's Declaration" or "Dan as per attached DGD" [8.2				
	aid kits. See Packing Instruction 915 and Y915)				 "Cargo Aircraft Only" or "C ble [8.2.2] 	AO", if applica-			
	 For UN packages containing Division 6.2 [5.0.2.11(c)] 	•							
	 "All packed in one (type of packag- ing)" [8.1.6.9.2, Step 6(e)] 					* 91			
	 Calculation of "Q" value [5.0.2.11;5.0.3.2; 8.1.6.9.2, Step 6(f)] 		۵	Q					

	•	169	NO*	N/A			YEŞ	NO*	1
	CKAGE(S) AND OVERPACKS	_				The Subsidiary Hazard label(s), without Class or Division Number, as per			1
	Packaging conforms with packing instruc- tion and is undamaged [9.1.1.3]				8	4.2,Column E [7.2.3.2]	¥		
32.	Same number and type of packagings and overpacks delivered as shown on DGD and is undamaged [9.1.1.3]		Q	Q	1	. The Subsiderry Filzani Labass must alient the Olass of Division Inducer, as gard 2. Column E (7.2.3.2)	Q		l
Mai	kings				44.	Cargo Aircraft Only label, adjacent to the Hazard label(s) [7.2.4.2; 7.2.6.3]			Ę
33.	For UN Specification Packaging, are they marked according to 6.0.4 and 6.0.5:				45.	"Orientation" labels [7.2.4.4]			C
	 Symbol and Specification Code 	Q		a	46.	For Magnetized Material, the Handling	ū	ū	ļ
	 X, Y or Z, agreed with Packing 	ū		ū		label [Subsection 4.2, Column E and 7.2.4.1]			
	Group/Packing Instruction – Maximum Gross Weight not ex-		-		47.	"Cryogenic Liquid" labels [7.2.4.3]	Q		C
	 ceeded (Solids or Inner Packagings) Infectious substance package mark- 				48.	All above labels correctly affixed [7.2] and have all irrelevant marks and labels been removed [7.4] and [7.4].	Q		C
21	ing [6.0.6]				For	removed [7.1.1; 7.2.1] Overpacks			~
54.	The Proper Shipping Name(s) including technical name where required, and the		Q			If specification markings are not visible.			ж
95	UN or ID Number(s) [7.1.5.1(a)]	_	_			the required statement marked [7.1.4.2]		<u>u</u>	Ļ
	The full name(s) and Address(es) of Shipper and Consignee [7.1.5.1(b)] The Net Quantity of Explosives and Gross					Packaging Use markings as required must be clearly visible or reproduced on the outside of the overpack [7.1.5]	Q		C
	Weight of the package for Class 1 items [7.1.5.1(c)]	Ū	U			If more than one overpack, identification marks and the total quantity of each over-		Q	C
37.	The Name and Telephone Number of a person responsible for Division 6.2 Infectious Substances shipment [7.1.5.1(d)]	Q	Q			pack must be indicated adjacent to the proper shipping name [Figure 8.1.L and 8.1.M; 7.1.4.3]			
38.	The Special Marking requirements shown for Packing Instruction 202 [7.1.5.1(e)] 916, 917	Q	Q			"Cargo Aircraft Only" restrictions [5.0.1.5.3]		Q	C
39.	In case of Carbon Dioxide, Solid (Dry Ice), the Net Weight marked on the package [7.1.5.1(f)]				53.	ERAL State and Operator variations complied with [2.9]	ū		Ç
40.	For Limited Quantity packagings: "LIM- ITED QUANTITY" or "LTD, QTY." [7.1.5.3]	a	D		54.	Advance arrangements for Infectious, Self-Reactive Substances of Division 4.1			
41 .	For Salvage Packagings: Is it marked "Salvage"? [7.1.5.4]			Q		and Organic Peroxides of Division 5.2 made and confirmed [9.1.2; 9.1.3]			
_abe	eling					For "Cargo Aircraft Only" shipments, a cargo aircraft operates on all sectors			
	The Primary Risk labe!(s), with Class or Division Number affixed to each package, as per 4.2, Column E [7.2.3.2]	Q	Q						
С	comments:								
σ	hecked by:			· -					—
P	lace:				Signa	iture:			
D	ate:								
-	ime:								

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DANGEROUS GOODS CHECK LIST FOR A RADIOACTIVE SHIPMENT

The recommended check list appearing on the following pages is intended to verify shipments at origin. Never accept or refuse a shipment before all items have been checked.

Is the following information correct for each entry?

SHIPPER'S DECLARATION FOR DANGEROUS GOODS (DGD)

		YES	NO*	N/A
	Two copies in English and in the IATA format (8.1.1, 10.8.1.2, 10.8.1.3, 9.1.1.2)			2
2.	Full name and address of Shipper (10.8.3.1)			
3.	Full name and address of Consignee (10.8.3.2)			
4.	If the Air Waybill number is not shown, enter it! (10.8.3.3)			
5.	The number of pages shown (10.8.3.4)			
6.	If full name of Airport or City of Depar- ture or Destination is not shown, enter it! (10.8.3.6 and 10.8.3.7)			
7.	The non-applicable Aircraft Type deleted (10.8.3.5) and the word "Non-Radioactive" deleted (10.8.3.8)			
ider	tification			
8.	Proper Shipping Name (10.8.3.9.1, Step 1)			
9.	Class 7 (10.8.3.9.1, Step 2)			
10.	UN Number, preceded by prefix (10.8.3.9.1, Step 3)			
11.	Packing Group if required for Subsidiary Risk (10.8.3.9.1, Step 4)			
12.	Subsidiary Risk (10.8.3.9.1, Step 5)			
	antity and Type of Packing			. *
	The words "Radioactive Material" if not included in the Proper Shipping Name (10.8.3.9.2, Step 6)			
14.	Name or Symbol of Radionuclide(s) (10.8.3.9.2, Step 6)			
15.	A description of the physical and chemical form, or Special Form, if not included in Proper Shipping Name (10.8.3.9.2, Step 6(c))			
16.	The group for LSA and SCO (10.8.3.9.2, Step 6)			
17.	The number and type of packages and the activity in Becquerels in each package, or for Fissile Material the total weight in grams or kilograms of fissile material may be shown in place of activity (10.8.3.9.2, Step 7)			
18.	For different individual radionuclides, the words "All packed in one" (10.8.3.9.2, Step 7)			

	YES	NO*	N/A
19. Activity within limits for Type A pack- ages (Table 10.4.A) or Type B (see attached competent authority certific- ate)			
20. Words "overpack used" shown on the DGD (10.8.3.9.2, Step 8)	•		
Packing Instructions 21. Category of package(s) or overpack (10.8.3.9.3, Step 9)			
 Transport Index and dimensions for Category II and Category III only (10.8.3.9.3, Step 9) 	Г . П		
23. "Fissile Excepted" (10.8.3.9.3, Step 9) Authorizations			
24. Identification marks shown and a cop of the document in English attached to DGD for the following (10.8.3.9.4, Step 10; 10.10.3.1):	-		
 — Special Form approval certificate — Type B package design approval certificate 			
 Type B(M) package shipment approval certificate 			
 Fissile material package design approval certificate 			
 Fissile material package shipmer approval certificate 	nt 🗆		
 Special Arrangement shipment approval certificate 			
25. Additional Handling Information (10.8.3.11)			
26. Name and Title of Signatory, Place and Date indicated (10.8.3.12 and 10.8.3.13)			
 27. Signature of Shipper (10.8.3.14) 28. Amendment or alteration signed by Shipper (10.8.1.6) 			
AIR WAYBILL	_	_	
29. The Handling Information box shows: "Dangerous goods as per attached Shipper's Declaration" (10.8.7.1)			
30. Cargo Aircraft Only, if applicable (10.8.7.1)			
31. Number of dangerous goods pieces i packages of dangerous and non- dangerous in one shipment (10.8.7.2)			
 PACKAGE(S) AND OVERPACKS 32. Number and type of packagings and overpacks delivered as shown on DGD 			
33. Unbroken transportation seal (10.6.2.1.1.2, 10.6.2.2.6) and packag in proper condition for carriage (9.1.1.3, 9.1.1.4)	e		

YES NO ⁴	* N/A	YES NO* N/A
Markings 34. Package bears Type A (10.7.1.3.3)	42. All labels correctly affixed and irrelev- ant marks and labels removed (10.7.4.1)	
35. Package bears Type B(U) or Type B(M) and approval mark corres- ponding to the certificate (10.7.1.3.4)	 For Overpacks 43. If "Type A", "Type B(U)" or "Type B(M)" not visible, the required 	
36. The Proper Shipping Name and UN Number (10.7.1.3.1)	statement shown (10.7.1.4.2) 44. Conditions of 10.7.3.4 complied with	
37. The Name and Address of the Ship-	GENERAL	
38. The permissible gross mass if it exceeds 50 kg (10.7.1.3.1))	45. State and Operator variations complied with as per 2.9	
Labelling	46. The Emergency Response Telephone Number as required by USG-12	
39. Two correctly completed Radioactive labels on opposite sides (10.7.4.3.1; 10.7.3.3)	47. For Cargo Aircraft Only shipments, a cargo aircraft operates on all sectors	
40. The Subsidiary Risk labels, without Class or Division Number (10.7.3.2)	labelling and documentary require-	
41. Cargo Aircraft Only label, if required, adjacent to the Hazard labels (10.7.4.2.3; 10.7.4.4.1)	ments been applied (Packing Instruc- tion 904 and 7.2.3.9)	-
Comments:		
Checked by:	· · · · ·	
Place:	Signature:	
Date:	· · · · ·	
Time:		

* IF ANY QUESTION IS ANSWERED WITH A "NO" DO NOT ACCEPT THE SHIPMENT AND GIVE A DUPLICATE COPY OF THIS COMPLETED FORM TO THE SHIPPER.

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