

**Paper 1 November 2021**

Q1 Pasotti an Italian manufacturer produces a pesticide preparation which is classified under the WHO Recommended Classification of Pesticides as coumarin derivative pesticide, solid, toxic with the active ingredient Warfarin. 10 marks

When tested The LD<sub>50</sub> oral of the 100% preparation was found to be 10 mg/kg

- (i) State the UN number of this preparation
  
- (ii) Does the proper shipping name need to be supplemented by a technical name? Justify your answer.
  
- (iii) What packing group should be assigned to the 100% preparation? Explain your answer.
  
- (iv) The manufacturer supplies it diluted in an inert diluent to give a concentration of 0.025%. The LD<sub>50</sub> of this solution is estimated at 8,000 mg/kg. Is this regulated for transport? Explain your answer.

Ref:

Q2 A supplier in Dusseldorf, Germany wishes to ship 20,000 kg of Titanium powder, dry of packing group III to a customer in Antwerp in Belgium. 8 marks

- (i) The supplier wishes to ship in rigid plastic IBCs. Is this possible? Explain your answer.
  
- (ii) When preparing the to return the empty uncleaned IBCs to the supplier the customer notices that two of the IBCs have passed the due date for their next 2.5 year periodic inspection. May the customer return these IBCs to the supplier for disposal or recycling of the dangerous goods residues and if so under what restrictions?

(iii) How should this be acknowledged in the transport document?

Ref

Q3

4 marks

(i) May Ethyl oxalate UN2525 be transported in an ADR fixed tank?

(ii) May Zinc phosphide UN1714 be carried in a UN portable tank?

(iii) Who is responsible for ensuring that an exceptional check is made when the safety of the shell or equipment of a portable tank may have been impaired as a result of repair following an accident?

Ref

Q4 What is the fixed payment penalty that may be levied in lieu of prosecution on an appointed DGSA who fails to perform their duties? 3 marks

Ref

Q5 As the appointed DGSA you are reviewing paperwork and come across the transport document (next page) from one of their suppliers. 5 marks

State 3 errors associated with the description of the goods as shown on the transport document.

Ref

## MULTIMODAL DANGEROUS GOODS FORM

FOR DANGEROUS GOODS: you must specify: UN No., proper shipping name, hazard class, packing group (where assigned) and any other element of information required under applicable national and international regulations

1. Shipper / Consignor / Sender Acme Chemicals Industrial Zone Antwerp, Belgium		2. Transport document number 1234		
		3 Page 1 of 1 pages	4. Shipper's reference 01	
		5. Freight forwarder's reference		
6. Consignee Chemical Distributors XL Industrial Estate, Dublin, Ireland		7. Carrier (to be completed by carrier)		
		<b>SHIPPER'S DECLARATION</b> I hereby declare that the contents of this consignment are fully and accurately described below by the proper shipping name, and are classified, packaged, marked and labelled / placarded and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.		
8. This shipment is within the limitations prescribed for: (Delete non applicable)		9. Additional handling information		
<del>PASSAGENER AND CARGO AIRCRAFT</del>		<del>CARGO AIRCRAFT ONLY</del>		
10. Vessel / flight no. and date Voyager express	11. Port / place of loading Antwerp			
12. Port / place of discharge Dublin	13. Destination Dublin			
14. Shipping Marks	* Number and kind of packages; description of goods	Gross mass (kg)	Net mass	Cube (m3)
UN 3394 ORGANOMETALIC SUBSTANCE, LIQUID, PYROPHORIC (Terillium), 4.2, II, (E)				
15. Container identification No./ vehicle registration No. ABC123	16. Seal Number (s) S-401	17. Container/vehicle size & type Curtain sider trailer	18. Tare (kg) 10,000	19. Total gross mass (including tare) (kg) 26,000
<b>CONTAINER /VEHICLE PACKING CERTIFICATE</b> I hereby declare that the goods described above have been packed/loaded into the container/vehicle identified above in accordance with the applicable provisions ** MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING		21. RECEIVING ORGANIZATION RECEIPT Received the above number of packages/containers/trailers in apparent good order and condition unless stated heron: RECEIVING ORGANIZATION REMARKS:		
20. Name of company Acme Chemicals	Haulier's name	22. Name of company (OF SHIPPER PREPARING THIS NOTE) Acme Chemiocals		
Name / status of declarant Pierre Le Saux, warehouse supervisor	Vehicle reg. No.	Name / status of declarant Pierre LeSaux, warehouse supervisor		
Place and date Antwerp, 1 September 2021	Signature and date	Place and date Antwerp, 1 September 2021		
Signature of declarant <i>Pierre Le Saux</i>	DRIVER'S SIGNATURE	Signature of declarant <i>Pierre Le Saux</i>		

Q6

4 marks

(i) The driver of a dangerous goods vehicle asks their manager if they can have a helper to help with unloading.

Is this possible?

(ii) A colleague coming off shift asks the driver for a lift as he will be passing by his home as he makes the dangerous goods delivery. Is this allowed?

Ref

Q7 Does a carrier require a written security plan if performing the following activities 5 marks

(i) Carriage of 5,000 L of UN 1203 in a tank?

(ii) Carriage of 5,000 L of UN 1202 in a tank?

Ref

Q8 In the event of an emergency during carriage

4 marks

(i) what may the driver use their fire extinguishers for?

(ii) Can the extinguishers be use to tackle fires in the load compartment?

(iii) Why should the battery master switch be activated?

Ref

Q9 Flammable Aerosols are to be distributed on cardboard trays

5 marks

(i) What is their classification code

(ii) May they be distributed as Limited Quantities and if so under what conditions

Ref

Q10 What training is required for personnel who perform the duties of loader as defined in ADR 1.4?

2 marks

Ref