

Q 1 A solution of 20% isobutyl ketone and 10% 1-butanol in water had a flash point of 35°C. (7)

a) What is the class, classification code and packing group of this solution?

b) Select an appropriate UN number and proper shipping name for the solution

Ref

Q2 A new liquid turpentine substitute is produced with a flash point of 39°C. (4)

a) What packing group applies to this solvent?

b) It is to be distributed by a printing supplies company. Can it be shipped under the proper shipping name PRINTING INK RELATED MATERIAL?

Ref

Q3 To what class do the following substances belong? (4)

a) A substance which has a self accelerating polymerisation temperature (SAPT) of 60°C and has a heat of reaction of 400 J/g

b) A substance which can cause disease in animals

Ref

Q4 What does the following label signify? (3)



Ref

Q5 Bromine solution is to be shipped in fibreboard boxes from Italy to Ireland. The boxes are small with each only containing 4 x 200 ml glass bottles (9)

a) Do the boxes need to be UN approved? Explain your answer.

b) The boxes will be placed on pallets and covered with black shrink displaying the UN number. Is this sufficient? Explain your answer in full.

Ref

Q6 Can pure Dibenzoyl peroxide be carried on the same vehicle with sodium bromate? (6)

Ref

Q7 A UN approved packaging has the following packaging code (5)

Ⓜ 6HA1/X/250/19/S/MAR621

Explain the meaning of the following elements of the code

6HA1

X

250

S

Ref

Q8 An ADR trained driver arrives at a customer site to pick up a dangerous goods load (5)

a) The goods are loaded by a forklift operated by site staff. Under ADR what training if any is required for the forklift driver?

b) Another member of the customer's staff asks the driver for a lift home as he will be passing by his house. Is this allowed?

c) If the driver is accompanied by a helper, what training is required for the helper??

Ref

Q9 What additional information must be shown on the transport document for the following?
(4)

a) A liquid offered for transport above 100°C without any indication from the proper shipping name that it is an elevated temperature shipment

b) A shipment of a temperature controlled package?

Ref

Q 10 Is it possible to transport empty uncleaned storage tanks from a decommissioned petrol station exempt from the ADR transport regulations? (3)

Ref