

Nitrogen, refrigerated liquid

UN No.	1977
CLS	2.2
Trans Cat	3
EAC	2RE
HIN	22

Product

- Colourless, odourless, deeply refrigerated liquefied gas

Nature of hazard

- The gas is suffocating without warning
- Spilled liquid evaporates quickly, the gas is very cold and produces mist, restricting visibility
- The gas may be heavier than air, and can spread along the ground
- Liquid contact with skin results in cold burns (Injuries may be permanent)
- Liquid contact with eyes results in severe injury (Injuries may be permanent)
- Heating will cause pressure rise, severe risk of bursting and subsequent explosion
- Spilled liquid has very low temperature, can cause material embrittlement

PPE for vehicle crew

- Suitable eye protection
- Suitable gloves providing thermal insulation
- Protective boots

Emergency Actions by driver

Notify Police and Fire Brigade *immediately* then:

Do

- Move vehicle to open ground, where practical
- Stop engine, isolate electrics
- Keep public away from danger
- Keep upwind
- Avoid contact with liquid
- Advise and assist Emergency Services

Do not

- Allow naked lights (possibility of spilled fuel)
- Smoke (possibility of spilled fuel)
- Enter dense vapour clouds
- Touch liquid or bare pipes without suitable protection
- Attempt to deal with any fire involving the load, but minor vehicle fires should be tackled with the vehicle fire extinguishers, if safe to do so
- Enter pits, hollows or troughs
- Allow water to be sprayed onto relief valves

Emergency Information (Driver and Emergency Services)

First Aid

- In case of contact with liquid, slowly thaw frosted parts with cold water, then remove clothing carefully
- Seek medical treatment when anyone has symptoms apparently due to inhalation or contact with skin or eyes

Emergency Services Information

PPE

- Emergency Services as per vehicle crew. Emergency Action Code requires full protection
- Breathing apparatus, harness and life lines for confined space

Fire

- Keep load cool by spraying with water - significant risk of catastrophic failure due to increasing pressure when exposed to fire
- Keep personnel away and upwind

Spillage

- Shut off leaks, if safe to do so
- Keep personnel away and upwind
- Warn personnel in pits, hollows and troughs
- Prevent fluid entering pits, hollows or troughs
- Contain leaking liquid with sand or earth, allow to evaporate naturally - do not use water
- Safety devices may operate unexpectedly when heat applied or insulating jacket damaged, causing danger from cryogenic liquid spraying onto personnel

Emergency telephone number

UK: 0500 020202

Republic of Ireland: 01 4566526

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