

UN No.	2201
CLS	2.2
SH	5.1
Trans Cat	3
EAC	2PE
HIN	225

# Nitrous Oxide, refrigerated liquid

## Product

- Colourless, odourless, refrigerated liquefied gas

## Nature of hazard

- The gas can cause unconsciousness
- Increases fire risk. Combustible material (e.g. clothing) ignites more readily and burns fiercely
- Reacts with oils, fats or highly combustible substances generating heat, and may cause spontaneous fire or explosion
- The gas is heavier than air, and will spread along the ground
- Spilled liquid evaporates quickly, the gas is very cold and produces mist, restricting visibility
- 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
- Ventilate clothing exposed to product
- Advise and assist Emergency Services

### Do not

- Allow naked lights
- Smoke
- 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 dense vapour clouds
- 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

- Remove, or make safe, all sources of ignition
- 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 (non oily), allow to evaporate naturally - do not use water
- Do not absorb in combustible materials (e.g. sawdust)
- 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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