

# Carbon Dioxide, refrigerated liquid

UN No.	2187
CLS	2.2
Trans Cat	3
EAC	2RE
HIN	22

## Product

- Colourless, odourless, refrigerated liquefied gas

## Nature of hazard

- The gas is suffocating without warning
- The gas is heavier than air, and will spread along the ground
- The gas and solid formed when liquid escapes are very cold, and produce mist, restricting visibility
- Cold gas/solid contact with skin results in cold burns (injuries may be permanent)
- Cold gas/solid contact with eyes results in severe injury (injuries may be permanent)
- Heating will cause pressure rise, severe risk of bursting and subsequent explosion

## 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
- Avoid contact with cold gas/solid
- Advise and assist Emergency Services

### Do not

- Allow naked lights (possibility of spilled fuel)
- Smoke (possibility of spilled fuel)
- Enter pits, hollows or troughs
- 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 cold gas/solid, 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
- Safety devices may operate unexpectedly when heat applied or insulating jacket damaged, causing danger from cold gas/spitting solid spraying onto personnel

## Emergency telephone number

**UK: 0500 020202**

**Republic of Ireland: 01 4566526**

**tell me more**  
www.airproducts.com