



SAFE BY DESIGN

See the hazard
Assess the risk
Fix the problem
Evaluate the fix

REFRIGERATION SYSTEMS



RECENT EVENTS

- Crew member died from injuries due to an Ammonia leak.
- Crew member pronounced dead and two crew treated for exposure to Freon.
- A mixture of dormant water and seawater in a trawler's refrigerated sea water system contributed to the deaths of two crew from toxic gases.

DO SAFE

- Never smoke or use an open flame in refrigeration areas.
- Prior to welding or soldering, areas must be purged completely and tested for explosive hazards.
- In the event of a person collapsing, do not enter the area without complying with suitable precautions for entering an enclosed space.
- There must always be a means of escape from spaces where toxic refrigerants are used and these should be clearly marked.



THINK SAFE

- Are all refrigerant cylinders stored in an open and well ventilated area?
- Are there tight fitting doors to the refrigeration spaces?
- Are alarms operable from within the space?
- Are portable means of detecting harmful leaking gases available?

