

## Enclosed Spaces

### CREW ACCIDENT

A crew member lost control after entering the fish room. He was found unconscious lying on the ground.



### FACTS

Enclosed spaces - such as cargo holds, fish rooms - are hazardous areas due to their atmosphere, construction and material or their loads and residues.

**Hazards can be life-threatening!**

**They can be caused e.g. by**

- oxygen-reduced atmosphere
- harmful / toxic gases
- biogases / hydrogen sulfide
- chemical gases (ceiling / panel, insulation, cable)
- not always recognizable by the smell / odours
- insufficient ventilation / enclosed space
- access without gas-free measurement
- unprotected access during rescue procedures
- increased physical & mental stress



Fig.: Example of a fish room with insulation and concrete floor

### CREW:

It is your health and your safety - therefore

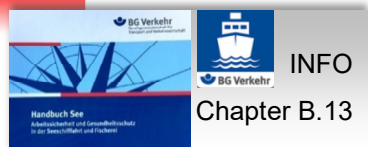
#### ENCLOSED SPACES ...

- should be entered with permission only
- should not be entered in case of suspicious odours
- should be ventilated prior entering

#### and consider ...

- the use of appropriate gas measurement devices
- any third parties, point on misconduct
- existing operating instructions and processes

**THINK AND ACT  
SAFE!**



### OWNER:

It is your responsibility - therefore

#### check ...

#### your risk assessment:

- are hazards & control measures described?
- implement additional measures as necessary!
- effective implementation subject to regular reviews?

#### Your emergency plan 'rescue from enclosed space':

- access with personal protective equipment (PPE)?
- means of rescue?

#### specify ...

- which spaces on board are hazardous
- which safety & control measures are necessary
- which measure fits with your operation / business
- if a work permit is required
- how to familiarize your crew
- what you are expecting from your crew

**and fix the safety control measures at your operating instruction / manual.**