

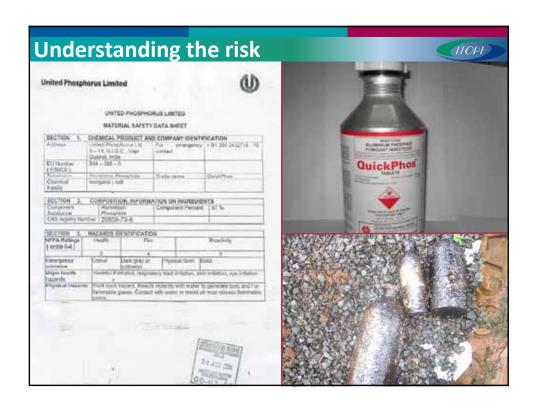


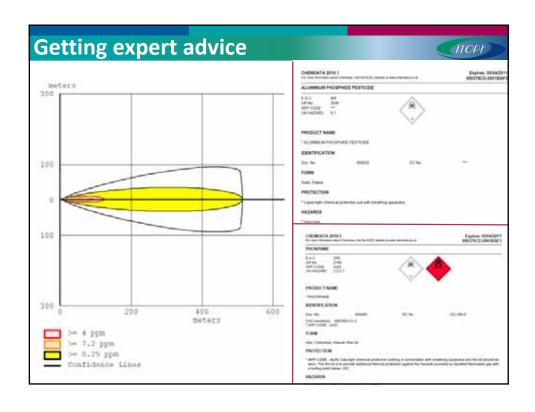
Adhesive containing flammable liquid (1 container, 0 overboard)
Hydrogen peroxide (4 empty non DG containers, all 4 overboard)

• Pyrethroid pesticide (2 containers, 0 overboard)



- During the salvage operation, one container with Aluminium phosphide broke open and the contents were lost in the hull and sea
- Contained 4,200 kg of AP in 2,800 x 1.5 kg canisters
- Reports received of canisters coming ashore







## Public health issues during MSC CHITRA (TICPE



## **HAZARDOUS CHEMICAL ADVISORY**

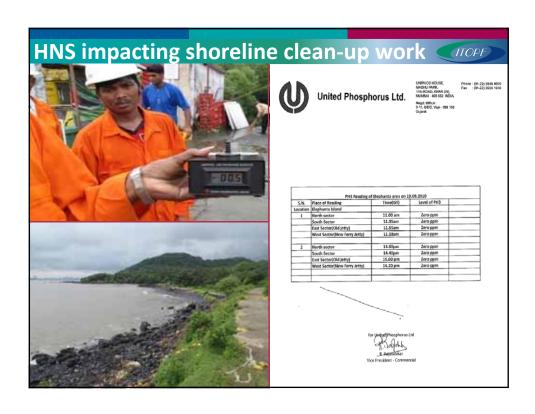


Keep an eye out for one-litre aluminium containers that could still have potentially harmful contents inside.

These are 10 inch metal containers (pictured here).

## The contents of the container are hazardous IF FOUND:

- · Do not touch it.
- Stay away.
- Immediately contact: +91 xxxxxxxxxx
- Clear, concise information distributed via leaflets
- Consideration of credible worst case scenario in risk assessment
- Monitoring and collection of lost cargo





- Salvors had a marine chemist dedicated to monitoring harmful gases
- Varying levels of PH₃ detected; changed with wind conditions
- Respirators required to work in some areas; other no-go areas





- Ability to discharge containers
- Salvors chartered all available barges
- Delays to salvage operation



- Similar timelines for other containership incidents





## Are: Risks well assessed? (i.e. most commonly transported chemicals in Indian waters) Response techniques pre-agreed? Sensitivities identified and priorities for protection agreed? Correct PPE available? Sufficient resources and back-up options identified? Waste storage and final treatment / disposal options identified? Roles and responsibilities of all clearly defined? Notification and mobilisation procedures clear? Arrangements for communications described? All aspects of the plan fully tested regularly?



