

Sheard Scientific

Marine & General Scientific & Technical Consultant

Capability Statement

Overview

Sheard Scientific provides detailed scientific advice on matters relating to the carriage of a wide range of commodities.

Advice can be given remotely or, if appropriate, Sheard Scientific may attend on site where the incident is taking place. Equally, Sheard Scientific can provide technical forensic opinions after the event or can witness and collect evidence during laboratory testing.

Competency

The consultant at Sheard Scientific is qualified to PhD level and has over 25 years of experience in marine consultancy, having dealt with a large number of problems and incidents arising from the carriage of cargoes.

Evidence has been given evidence in court and arbitration on many occasions.

Strengths

Advice is always tailored to the specifics of the case in question. Sheard Scientific prides itself on providing a rapid response to all client communications and always puts the client's interests first.

Being truly independent allows Sheard Scientific to offer a highly competitive fee rate to its clients.

Contact details

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Commodities Covered

Safe carriage of and cause and consequence of damage to the following commodities.

- Bulk grain and oilseeds – maize/corn, wheat, sunflower seeds, soya beans
- Derived agricultural commodities such as soya bean meal, sunflower seed pellets, DDGS, corn gluten feed, cottonseed meal.
- Bagged products – rice, cocoa, fishmeal
- Sugar – refined sugar in bags and bulk raw sugar
- Edible oils in bulk (vegetable oils and animal oils). Contamination and damage
- Coal in bulk (safe carriage, fires and cargo damage)
- Wood pellets in bulk (fires, gas evolution and cargo damage)
- Coke (metallurgical coke and coking coal)
- Fertilisers in bulk and in bags. Damage and thermal decomposition
- Sulphur in bulk – safe carriage and damage to
- Chemicals in packaged form – safe carriage, self-heating, contamination and fire
- Refrigerated produce – fruit and vegetables
- Frozen goods – fish and meat
- Direct reduced iron (DRI) – safe carriage and handling of incidents
- Bulk cargo liquefaction (Group A cargoes) – mineral concentrates, iron ore fines, nickel ore
- Infestation and safe fumigation of cargoes
- Warehouse storage of commodities
- Sampling – statistical significance, sampling procedures
- Detection of genetically modified organisms (GMO) – sampling and testing procedures
- Cargo fires – self-heating, spontaneous combustion, fumigant fires and explosions

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