

ANALYSIS OF ACCIDENTS		
71 accidents identified involving solid bulk cargoes on board ships between 1999–2018, resulting in:		
HOW MANY FATALITIES?	106	Total Fatalities Numerous serious injuries, including brain injury, to both ship and shore personnel
WHY?	88	Deaths due asphyxiation or carbon monoxide poisoning
	18	Deaths due cargo related explosions
WHAT TYPE OF ACCIDENT?	55	Enclosed space related accidents
	16	Fire/Explosion related accidents
WHO WERE INVOLVED?	70	Seafarer fatalities
	36	Shore worker fatalities (all asphyxiation)
WHERE DID ASPHYXIATION ACCIDENTS OCCUR?	51	Asphyxiation in hold access trunks and ladders (76 fatalities)
	2	Asphyxiation in cargo holds (9 fatalities)
	2	Asphyxiation in adjacent forecastle (3 fatalities)
WHERE DID FIRE / EXPLOSION ACCIDENTS OCCUR	3	Explosions in cargo holds (8 fatalities)
	1	Explosion on deck (6 fatalities)
	1	Explosion in adjacent space (deck mast house) (2 fatalities)
	2	Explosions in adjacent space (forecastle) (2 fatalities)
	9	Fires in cargo holds (No fatalities)
WHERE WAS SHIP WHEN ACCIDENT OCCURRED?	19	At Sea (30 fatalities)
	42	In Port (64 fatalities)
	10	N/A (12 fatalities)
WHAT WERE THEY DOING? (Of 59 Identified)	3	Loading operations
	38	Unloading operations
	18	At Sea
WHAT CARGOES WERE THEY HANDLING?	58	Group B cargoes include: Coal (20); Petcoke (3); DRI (3) Wood Products – General (15) Wood Pellets (6); Wood Chips (2); Steel Turnings (2) Copper Conc. (2); Zinc Conc. (2); Zinc Skimmings(1) Seed Cake (1); Palm Kernel (1)
	5	Group C cargoes include: Ammonium Nitrate Based Fertilizer; Scrap Metal
	2	Cargoes not listed in IMSBC Code (Incinerator Bottom Ash, Nut Shells)
	3	Grain cargoes
	3	Information not available

WHAT TYPE OF SHIPS WERE INVOLVED? (Of 52 Identified)	18	General cargo/Multi-purpose ships (coastal bulkers)
	8	Handysize bulk carriers (20-40,000t dwt)
	14	Handymax bulk carriers (40-65,000t dwt)
	4	Handymax general cargo ships (forest product carriers)
	6	Panamax bulk carriers
	1	Post-Panamax bulk carrier
	1	Capesize bulk carrier.

Enclosed Space Accidents Involving Solid Bulk Cargoes 1999 – 2009								
YEAR	PORT	SHIP (FLAG)	DEAD	INJURED**	CAUSE	LOCATION	CARGO	CLASS/ GROUP
1. 1999	At Sea	MAIF No.8 (Bahamas)	1 Crew		Asphyxia	Hold Access	Steel Turnings	B
2. 2000	Derry/ Londonderry	Diamond Bulker (Philippines)	2 Shore		Asphyxia	Hold Access	Coal	B
3. 2000	At Sea	Baltyiskiy-107 (Russia)	1 crew		Asphyxia	Hold Access	Timber	B
4. 2000	At Sea	MAIF No.20	1 Crew		Asphyxia	Hold Access	Coal	B
5. 2001	N/A	MAIF No.29 (Liberia)	1 Crew		Asphyxia	Hold Access	Coal	B
6. 2002	Dar Es Salaam	MAIF No.40	1 Crew		Asphyxia	Hold Access	Grain	Grain
7. 2002	Rotterdam	Weaver Arrow (H.K)	1 Shore	3 Shore	Asphyxia	Hold Access	Wood Pellets	B
8. 2003	N/A	MAIF No.48 (Hong Kong)	1 Crew		Asphyxia	Hold Access	Timber	B
9. 2004	In Port	MAIF No.52 (Finland)	2 Crew		Asphyxia	Hold Access	Timber	B
10. 2004	N/A	MAIF No.54 (Vanuatu)	1 Crew		Asphyxia	Hold Access	N/A	N/A
11. 2004	N/A	MARS 200404	4 Shore		Asphyxia	Hold	Logs	B
12. 2005	Grovon, Sweden	Eken (Sweden)	1 Crew		Asphyxia	Hold Access	Logs	B
13. 2005	Port Everglades	Saga Voyager (Hong Kong)	1 Crew		Asphyxia	Hold Access	Timber	B
14. 2006	N/A	MAIF No.67 (RMI)	1 Crew		Asphyxia	Hold Access	Coal	B
15. 2006	N/A	MAIF No.70 (RMI)	1 Crew		Asphyxia	Hold Access	Coal	B
16. 2006	Skellefteham Sweden	Noren (Sweden)	1 Crew		Asphyxia	Hold Access	Wood Chips	B
17. 2006	Helsingorg Sweden	Saga Spray (Hong Kong)	1 Crew	12 People	Asphyxia	Hold Access	Wood Chips	B

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18. 2007	N/A	MAIF No.84 RMI	1 Crew		Asphyxia	Hold Access	Pet Coke	B
19. 2007	Timra Sweden	Fembria (<i>Isle of Man</i>)	2 Crew		Asphyxia	Hold Access	Logs	B
20. 2007	Bornholm, Denmark	Amirante (<i>St. Vin. & G.</i>)	2 Crew		Asphyxia	Hold Access	Wood Pellets	B
21. 2008	Bilbao	MAIF No. 96 (Liberia)	1 Shore		Asphyxia	Hold Access	N/A	N/A
22. 2008	N/A	MAIF No. 99 Norway	2 Crew		Asphyxia	Hold Access	N/A	N/A
23. 2008	At Sea UK	Sava Lake (<i>Latvia</i>)	2 Crew		Asphyxia	Adj. Space Forecastle	Metal Turnings	B
24. 2008	Mobile Alabama	Celerina (Switzerland)	1 Shore		Asphyxia	Hold Access	Coal	B
25. 2009	N/A	MARS 200954	1 Crew		Asphyxia	Hold Access	Copper Conc.	B
26. 2009	Saganoseki Japan	Singapore Grace (<i>Hong Kong</i>)	3 Shore 36		Asphyxia	Hold Access	Copper Conc.	B
27. N/A	In Port	Bulk Carrier 1 Practice/UK P&I	5 Shore		Asphyxia	Hold Access	Maize	Grain
28. 2010	Port Marsden, N.Z.	TPC Wellington (<i>Panama</i>)	2 Crew		Asphyxia	Hold Access	Logs	B
29. 2011	Kotka, Finland	Andante (<i>Gibraltar</i>)	1 Crew	1 Crew	Asphyxia	Hold Access	Timber	B
30. 2013	At Sea (<i>Israel</i>)	Sa. Vanguard (<i>Hong Kong</i>)	1 Crew		Asphyxia	Hold Access	Coal	B
31. 2013	N/A	MARS - 201459	1 Crew		Asphyxia	Hold Access	Coal	B
32. 2014	At Sea (<i>Denmark</i>)	Lady Irina (<i>Netherlands</i>)	1 Crew		Asphyxia	Adj. Space Forecastle	Wood Pellets	B
33. 2014	At Sea North Sea	Hudsonborg (<i>Netherlands</i>)	1 Crew		Asphyxia	Hold Access	Zinc Conc.	B

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YEAR	PORT	SHIP (FLAG)	DEAD	INJURED**	CAUSE	LOCATION	CARGO	CLASS/ GROUP
34. 2014	<i>Gibraltar</i>	<i>Sea Lady</i> (RMI)	1 Crew		Asphyxia	Hold Access	Coal	B
35. 2014	Ferrol, Spain	<i>Hanjin Sines</i> (Panama)	1 Shore		Asphyxia	Hold Access	Coal	B
36. 2014	<i>Vitoria Brazil</i>	<i>UBC Tokyo</i> (Cyprus)	1 Crew		Asphyxia	Hold Access	Pet Coke	B
37. 2014	<i>Montoir, France</i>	<i>Stara Planina</i> (Malta)	1 Crew		Asphyxia	Hold Access	Seed Cake	B
38. 2015	<i>Kobe Japan</i>	<i>Triton Swan</i> (Panama)	1 Crew 1 Shore		Asphyxia	Hold Access	Grain	Grain
39. 2015	<i>At Sea</i>	<i>Sally Ann C</i> (Isle of Man)	3 Crew		Asphyxia	Hold Access	Timber	B
40. 2015	Hanstholm Denmark	<i>Corina</i> (Poland)	1 Crew		Asphyxia	Hold Access	Wood Pellets	B
41. 2015	Antwerp	<i>Saga Frontier</i> (Hong Kong)	3 Shore		Asphyxia	Hold Access	Coal	B
42. 2015	Goole, UK	<i>Suntis</i> (Germany)	3 Crew		Asphyxia	Hold Access	Timber	B
43. 2015	Drepano, Greece	<i>Kosmas V</i> (Panama)	1 Crew	3 Crew	Asphyxia	Hold Access	Coal	B
44. 2015	Mylaki Greece	<i>Lambay</i> (Liberia)	1 Crew		Asphyxia	Hold Access	Pet Coke	B
45. 2015	Fancheng China	<i>Ionic</i> (Greece)	1 Crew 1 Shore		Asphyxia	Hold Access	Zinc CONC?	B
46. 2016	Humen, China	<i>Pekin</i> (Hong Kong)	2 Shore		Asphyxia	Hold Access	Logs	B
47. 2017	Sohar	N/A	3 Shore		Asphyxia	Hold Access	Timber	B
48. 2017	N/A	<i>N/A (UK P&I)</i>	1 Crew	1 Crew	Asphyxia	Hold Access	Coal	B
49. 2017	Chittagong	<i>Latika Naree</i> (Thailand)	2 shore		Asphyxia	Hold Access	Logs	B
50. N/A	N/A	IMO Reports	1 Crew		Asphyxia	Hold Access	Coal	B

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YEAR	PORT	SHIP (FLAG)	DEAD	INJURED**	CAUSE	LOCATION	CARGO	CLASS/ GROUP
51. N/A	At Sea	IMO Reports	2 Crew		Asphyxia	Hold Access	Coal	B
52. 2018	Oxelosund, Sweden	Declan Duff (Panama)	1 Shore		Asphyxia	Hold Access	Coal	B
53. 2018	Gujarat, India	Feng Hui Hai (Hong Kong)	2 Crew		Asphyxia	Hold Access	Coal	B
54. 2018	Kalimantan, Indonesia	Sumiei (Indonesia)	5 shore		Asphyxia	Hold	Palm Kernel	B or C
55. 2018	Napier New Zealand	Nord Yilan (Panama)	Nil	6 Shore	Asphyxia (CO)	Hold	Logs	B
Total Fatalities due Asphyxiation or CO Poisoning 1999-2018								88 People

Fires / Explosions Involving Solid Bulk Cargoes 1999 – April 2018								
YEAR	PORT	SHIP (FLAG)	DEAD	INJURED	CAUSE	LOCATION	CARGO	GROUP
1. 1999	At Sea	Karteria (Malta)	2 Crew		Explosion	Cargo Holds	DRI	B
2. 2003	At Sea	Adamandas (Cyprus)	Nil		Explosion	Cargo Holds	DRI	B
3. 2004	At Sea	YTHAN (RMI)	6 Crew		Explosion	Cargo Holds	DRI	B
4. 2000	At Sea	Thor Emile (Denmark)	6 crew		Explosion	Deck	Zinc Skimmings	B
5. 2007	At Sea (Spain)	Osterdijk (Ant. & Bar.)			Fire	Cargo Holds	A.N based Fertilizer	C
6. N/A	N/A	Bulk Carrier 2 Practice /UK P&I	2 Crew		Explosion	Adj. Space Masthouse	Coal	B

Fires / Explosions Involving Solid Bulk Cargoes 1999 – April 2018								
YEAR	PORT	SHIP (FLAG)	DEAD	INJURED	CAUSE	LOCATION	CARGO	GROUP
7. 2015	At Sea (Germany)	Purple Beach (Malta)			Fire	Cargo Holds	A.Nbased Fertilizer	C
8. 2015	At Sea (Japan)	Soya Maru (Belize)			Fire	Cargo Holds	Scrap Metal	
9. 2016	Venice Italy	Star Maria (RMI)			Fire	Cargo Holds	Coal	B
10.2016	Gydia Poland	Olga Topic (Liberia)			Fire	Cargo Holds	Nut Shells (Biomass)	Not Listed
11.2016	Liverpool UK	V Due (Malta)			Fire	Cargo Hold	Wd.Pellets (No Adds)	B
12.2017	South Shields, UK	Flevoborg (Netherlands)			FIRE	Cargo Holds	Wood Pellets	B
13.2017	At Sea (Canary Isl.)	Cheshire (UK)			FIRE	Cargo Holds	A.Nbased Fertilizer	C
14.2017	Iskenderun Turkey	Global Laguna (Panama)			Fire	Cargo Holds	Steel Scrap	N/A
15.2017	At Sea (Azores)	Tamar (RMI)	2 Crew		Explosion	Adj. Space Forecastle	Coal	B
16.2017	Plymouth UK	Nortrader (Ant.& Barbuda)		1	Explosion	Adj.Space Forecastle	Inc. Ash (U-IBA)	Not Listed
Total Fatalities due Fire or Explosions								18 People

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2. 2000	Diamond Bulker	https://assets.digital.cabinet-office.gov.uk/media/547c714e40f0b60244000115/diamond-bulker.pdf
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16. 2006	Noren	https://www.pellet.org/images/2011-11-11_Research_on_Off-gassing_and_Self-heating_Report_2_for_BC_Ethanol.pdf
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