



### **Heavy Vehicle Fires – Causes and prevention**

A recognised project under the NHVR's Heavy Vehicle Safety Initiatives program

artsa.com.au/conferences



# Bulk Tanker incident and accident data 2016 - 2018



#### Collecting data since January 2016 – based on key word searching of the internet

dent Date	Road	Location	State	Single or	Roll over	Loss of cor Fatal	ities Critical	Classification	Type of Vehicle	Product	URL Title	Description
1 13/07/201	.6										http://www.theage.com.au/victoria/melbourne-express-thursday-july-14-20] Melbourne Express: Thursday, July 14, 2016	A chemical truck is leaking hydrochloric acid
1 13/07/201	.6										http://www.9news.com.au/national/2016/07/14/08/06/chemical-spill-calde Truck leaks hydrochloric acid on Calder Freeway	The tanker pulled over on the freeway north
1 13/07/201	6										http://www.heraldsun.com.au/news/victoria/pedestrian-hit-by-car-on-ferntr Pedestrian hit by car on Ferntree Gully Road, chemical spill on Calder	Nine News Melbourne (@9NewsMelb) July
1 14/07/201	6 Calder Freeway	Gisbourne	Vic	Single	No	Yes	0 No	Leak due to mecha	r Semi-trailer	Sulphuric acid	http://www.bendigoadvertiser.com.au/story/4029744/acid-spill-on-the-calde Acid spill on the Calder Freeway   Bendigo Advertiser	UPDATE 4.20pm: Northbound lanes of the 0
2 20/07/201	.6										http://www.couriermail.com.au/news/queensland/bdouble-truck-rolls-on-cu Highway re-opens after truck roll	AUTHORITIES have reopened the Cunningha
2 20/07/201	.6										http://www.chinchillanews.com.au/news/truck-crash-cunningham-hwy-caus Highway open to traffic following rollover	Authorities will now face the painstaking to
2 20/07/201	.6							1		+	http://www.brisbanetimes.com.au/queensland/cunninghams-gap-emergenc Chemical scare closes highway after truck rolls	The Cunningham Highway has reopened aft
2 20/07/201	.6										http://www.couriermail.com.au/news/queensland/bdouble-truck-rolls-on-cu B-Double truck rolls on Cunningham Highway at Cunningham's Gap	Chemical truck rollover. QLD Nine News
2 21/07/201	6 Cunningham High	Cunninghar	Qld	Single	Yes	Yes	0 No	Tanker rollover	B-double		http://www.9news.com.au/national/2016/07/21/19/19/cunningham-highwa Cunningham Highway reopens after 17-hour clean-up from	Highway reopens after 17-hour clean-up
2 21/07/201	.6							The second state of the se		militaritiste in Lorenze e conquirinativa respecta e più paterimiti	http://www.brisbanetimes.com.au/queensland/cunninghams-gap-emergenc Chemical scare closes highway after truck rolls - Brisbane Times	The Cunningham Highway has reopened aft
3 29/07/201	.6										http://www.brisbanetimes.com.au/queensland/motorbike-rider-injured-as-tr/Motorbike rider injured as tanker leaks hydrochloric acid near	A tanker carrying hydrochloric acid collided
3 29/07/201	.6							1			http://mypolice.qld.gov.au/blog/2016/07/30/fatal-traffic-crash-gladstone-5/ Fatal traffic crash, Gladstone	Hanson Road remains closed while the cras
3 30/07/201	.6										http://mypolice.qld.gov.au/blog/2016/07/30/fatal-traffic-crash-gladstone-5/ Fatal traffic crash, Gladstone - Queensland Police News	Hanson Road remains closed while the cras
3 30/07/201	.6										http://www.brisbanetimes.com.au/queensland/motorbike-rider-injured-as-t; Motorbike rider injured as tanker leaks hydrochloric acid near Gladstone	A tanker carrying hydrochloric acid has colli
3 1/08/201	6 Hanson Road	Gladstone	Qld	Multi	No	Yes	1 Yes	Collision involving	c A-double	Hydrochloric Acid	http://www.gladstoneobserver.com.au/news/breaking-car-motorbike-crushe UPDATE: Police seize dash-cam footage from truck in Gladstone	A motorbike rider and truck driver, also invo
4 18/08/201	.6										http://www.smh.com.au/nsw/truck-crash-near-sydney-airport-causes-traffic Fuel tanker crash near Sydney Airport causes traffic jams on	Fuel tanker crash near Sydney Airport cause
4 18/08/201	.6							ii			http://www.abc.net.au/news/2016-08-19/sydney-airport-tanker-fuel-spill-clc Fuel tanker overturns near Sydney Airport causing traffic delays at	The truck failed to negotiate a corner on W
4 18/08/201	.6										http://www.news.com.au/national/nsw-act/news/road-accident-diverted-tri Road accident, diverted trains cause peak-hour pain at Sydney Airport	The stricken tanker tipped over on Wentwo
4 18/08/201	.6										http://www.dailytelegraph.com.au/news/nsw/petrol-tanker-rolls-on-souther Petrol tanker rolls on Southern Cross Drive, trucks collide in fatal	Fire and Rescue NSW crews will remove th
4 18/08/201	.6										http://www.news.com.au/national/breaking-news/fuel-tanker-overturns-net Flipped tanker removed near Sydney Airport - News.com.au	Fire and Rescue NSW crews will remove th
4 18/08/201	.6										http://www.abc.net.au/news/2016-08-19/sydney-airport-tanker-fuel-spill-clc Fuel tanker overturns near Sydney Airport causing traffic delays at	The truck failed to negotiate a corner on W
4 19/08/201	.6 Wentworth Ave	Mascot	Nsw	Single	Yes	Yes	0 No	Tanker rollover	Semi-trailer	Motor spirit (petrol)	http://www.abc.net.au/news/2016-08-20/road-reopens-after-fuel-tanker-sp Sydney's Wentworth Avenue reopens after fuel tanker spill	Contractors will continue working to clean
4 19/08/201	.6										http://www.huffingtonpost.com.au/2016/08/19/massive-fuel-clean-up-unde Massive Fuel Clean-Up Underway In Sydney After Truck Crash	Police are urging motorists to be aware of
4 19/08/201	.6										http://www.smh.com.au/nsw/truck-crash-near-sydney-airport-causes-traffic Fuel tanker crash near Sydney Airport causes traffic jams on Southern	The tanker carrying 34,000 litres of diesel a
4 19/08/201	.6							10			http://www.news.com.au/national/nsw-act/news/road-accident-diverted-tri/Sydney Airport: Overturned tanker causes traffic chaos on airport roads and the state of the state o	Road accident, diverted trains cause peak-h
4 19/08/201	.6										http://www.abc.net.au/news/2016-08-20/road-reopens-after-fuel-tanker-sp Sydney's Wentworth Avenue reopens after fuel tanker spill - ABC	Contractors work around the clock to clean
4 19/08/201	.6										http://www.triplem.com.au/sydney/news/blog/2016/8/sydney-tanker-emen Sydney Tanker Emergency - Triple M	The tanker flipped on Wentworth Avenue n
4 19/08/201	.6										http://www.police.nsw.gov.au/news/latest_releases?sq_content_src=%2Bd) Inquiries continue after tanker crash at Mascot - NSW Police Force	Inquiries are continuing after a fuel tanker
4 19/08/201	.6										http://www.skynews.com.au/news/local/sydney/nsw/2016/08/19/fuel-tank Fuel tanker flips near Sydney airport - Sky News	A petrol tanker carrying 30000 litres of fuel
4 19/08/201	.6										http://acapmag.com.au/home/2016/08/delays-tanker-flips-near-sydney-airp Delays as tanker flips near Sydney airport - ACAPMAg - The voice of	The petrol tanker flipped on a major road a
4 19/08/201	.6										http://www.w3livenews.com/2016/08/19/Sydney-Airport-fuel-tanker-spill-cl Sydney Airport fuel tanker spill closes Eastlakes roads during morning	A large fuel spill from an overturned fuel ta
5 19/08/201	.6 Wollar Road	Wilpinjong	Nsw	Single	Yes	Yes	0 No	Tanker rollover	Semi-trailer	Motor spirit (petrol)	http://www.mudgeeguardian.com.au/story/4107262/fuel-tanker-rollover-on Fuel tanker rollover on Wollar Road   Mudgee Guardian	Various units from the NSW Rural Fire Serv
6 28/08/201	.6							i i			http://www.themercury.com.au/news/tasmania/truck-rollover-closes-bass-t Highway reopens after gas tanker rollover	A TRUCK driver has been taken to hospital
6 28/08/201	.6										http://www.themercury.com.au/news/tasmania/truck-rollover-closes-bass-l <sup>*</sup> Truck rollover closes Bass Highway near Burnie in state's North-West	A TRUCK driver has been taken to hospital
6 29/08/201	.6 Bass Highway	Chasm Cree	Tas	Single	Yes	No	0 Yes	Tanker rollover	Rigid tanker	Hydrocarbon gas (LPG	http://www.theadvocate.com.au/story/4125791/truck-rollover-round-hill/ Truck rollover Round Hill   The Advocate	Rollover: The scene of the truck rollover at
6 29/08/201	.6										http://www.police.tas.gov.au/news-events/media-releases/chasm-creek-cra Tasmania Police   Chasm Creek Crash ,Äì Truck Rollover	A single vehicle truck rollover occurred on t
7 2/09/201	.6										http://www.standard.net.au/story/4139940/crash-passenger-youth-remande Police arrest, charge and remand in custody 15-year-old youth after	collision with a B-double petrol tanker fiv
7 2/09/201	.6										http://www.standard.net.au/story/4139153/camperdown-crash-wanted-mai Camperdown crash: Wanted man involved   The Standard	Emergency services work at the scene of a
7 4/09/201	6 Princes Highway	Camperdov	Vic	Multi	No	No	0 No	Collision involving	B-double		http://www.theage.com.au/victoria/armed-robbery-suspect-caught-after-cra Armed robbery suspect caught after crash with petrol tanker	A man on the run following an alleged arm
7 4/09/201					1000						http://www.powerfmsa.com.au/news/current-events/60137-vic-petrol-tanke Vic petrol tanker crash leads to arrest - Power FM SA	The 20-year-old remains under police guard

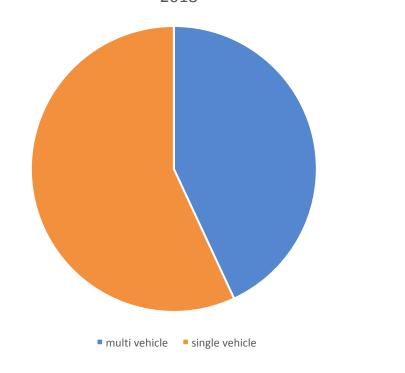


#### Location data

https://www.google.com/maps/d/viewer? mid=1r7VA7q9zEYbialVPgA9abd0r2iyLsQjZ&ll=-30.96130444149264%2C13 4.3403393999995&z=4

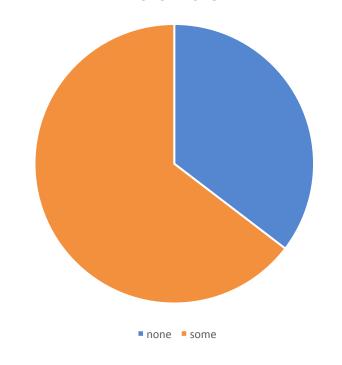


DG tanker incidents - single vs multi vehicle incidents, 2016 - 2018



65 incidents in the last 3 calendar years 20 to 25 per annum Around 55% are single vehicle incidents

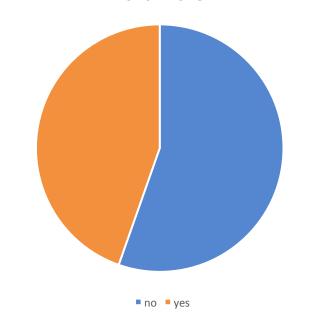
DG tanker incidents - loss of containment 2016 - 2018



64% involved a loss of containment



DG tanker incidents - roll over frequency 2016 - 2018



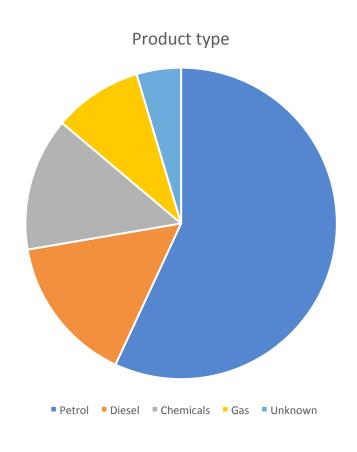
DG tanker incident fatals 2016 - 2018



44% rolled over

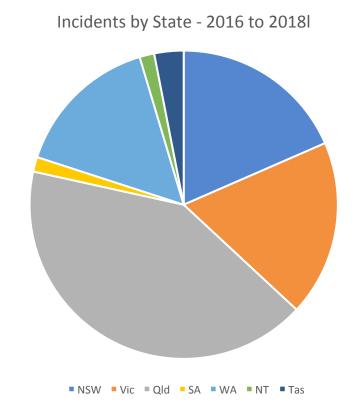
22 people died





57% petroleum Around 75% is petroleum and diesel





Victoria and NSW account for close to 20% each of total incidents

Queensland is over 40% of the total incidents for Australia for the 3 years to end 2018



## Filtering options

https://www.google.com/maps/d/viewer?mid=1KnESOkX1kNoU1hBA09-GXzZ6eGKFlfO0&II=-30.96130444149264%2C134.34033939999995&z=4



#### Fatalities – 2016 to 2018

https://www.google.com/maps/d/viewer? mid=1zyTtJ\_DiDBRP4TxpJNIFmJmgHkFrUlmN&ll=-30.961304693178622%2 C134.34033950000003&z=4



#### **DG Truck Fires**

Of the 65 incidents, 9 caught fire:

- 6 due to the incident
- 3 due to the truck itself causing the fire

Around 14% of DG tanker incidents result in fires Of those only around  $1/3^{rd}$  are the result of an ignition source in the truck





**This is a hands-on day** for tanker people to demonstrate opportunities to further improve safety and productivity in our industry. Supported by our partners below and the Australasian Fire and Emergency Service Authorities Council (AFAC), it is our annual opportunity for tanker manufacturers, operators, regulators, enforcement and other industry personnel to exchange views in a practical setting.

With speakers from key agencies supported by industry experts, this event will feature a half day of training on the afternoon of the 4th and a full day of presentations and practical demonstrations on the 5th September.





National Bulk Tanker Association

























WABCO











https://www.nbta.com.au/bulktankerday



4th and 5th September 2019 Brisbane Show Grounds

#### **Training Program**Afternoon session, 4th September

1.30pm	A52809 tanker standard – what has changed? Major changes in the new code and what that	Lee Stringer, Manager, SLP
2.30pm	means for new equipment  Tanker maintenance inspections  Tanker check lists and critical maintenance	Sean Alcock, Mechanical Services Manager, FBT Transwest Dave Ingham, STO, EPA NSW
3.30pm	Afternoon tea	
4pm	Transport Emergency Response Plans (TERPS) How to construct a TERP and put it into action	Shane Falkiner, National Transport Compliance Manager, Toll Fuels and Energy Matt Arkell, PTO, EPA NSW
5pm	Close	

#### **Bulk Tanker Day** 5th September

8am	Introduction Welcome, housekeeping	Justin Keast, Chairman, NBTA
8.10am	Market Outlook and Trends Demand for bulk fuels, chemicals and gas Trends in equipment numbers and types The impact of PBS	Phil Potterton, Director, Economic Connections Tammy Wigg, Product Manager, NHVR Les Bruzsa, Chief Engineer, NHVR
9.15am	Performance based safety Incident data and causality Truck fires Maintenance Technology trends and performance	Adam Gibson, Risk Engineer, NTI Rob Perkins, Executive Director, NBTA Jas Babalija, Hartwood Sean Alcock, Mechanical Services Manager FBT Transwest Brad May, Director Sales, PACCAR
10.15am	Morning tea and exhibition tour	Introduction to exhibitors
11.15am	Response Preparedness and Performance Training Sharing resources - PIEMC Response preparedeness Response co-ordination	Shane Falkiner, Toll Liquids Rod Rutledge, National Safety Advisor, Caltex Anthony Pospisil, Risk Manager, ISS First Response Dave Ingham, STO, EPA NSW
12.30pm	Lunch in exhibition	
1.30pm	Emergency Response Demonstration TERPs in action	Queensland Fire and Emergency Services CROIERG, ISS First Response
2.30pm	Productivity Protecting access  National outcomes Standards and Codes	Grant Johnson, Government Relations, Transport for NSW, Gavin Hill, GM Strategy, TCA Debra Kirk, NTC Darrel Ramm, Gas Energy Australia Lee Stringer, Manager, SLP
3.30pm	The road ahead	Justin Keast, Chairman, NBTA
3.40pm	Afternoon tea	
4pm	Close	



## Questions