



# Dangerous Goods Incident Logs 2006

# Dangerous Goods Transport Incident Log 2006

Date / Time	Location	Goods	Incident Details
09/01/06	62KM SOUTH OF MT NEWMAN, GREAT NORTHERN HIGHWAY	LP Gas UN 1075	The rear trailer of a double roadtrain rolled over after colliding with cattle on the road. No injuries or loss of product occurred.
23/01/06	RIVERVALE	Petrol UN 1203	A tanker driver overfilled an underground tank with petrol. The overfill was ignited, by static electricity, and the driver severely burnt.
15/02/06 1515 Hrs	BETWEEN WALEBING AND BINDI BINDI, GREAT NORTHERN HIGHWAY	Ammonium Nitrate UN 1942	The rear trailer of a rigid combination (two trailer) vehicle rolled over. The company has stopped using this vehicle configuration until a safe product fill level for the trailers has been established.
20/02/06 0221 Hrs	NEAR DARRINE VIA KOOLANNOBBING	Cyanide Solution, N.O.S. UN 1935  Ammonium Nitrate UN 1942	A suspected broken axle on a rail wagon transporting two 20 t containers of cyanide solution caused the wagon to derail. No spill or injuries occurred.
14/03/06 1830 Hrs	BRAND HIGHWAY 17KM NORTH OF ENEABBA	LP Gas UN 1075	A road tanker was involved in a head-on collision with a passenger vehicle. The driver of the sedan died. The tanker rolled onto its side, however there was no loss of product.
25/04/06 1056 Hrs	KEWDALE	Organophosphorus Pesticide, Toxic, Flammable UN 3017	A small quantity of pesticide (5–10 L) spilled from a freight container at a rail yard. Although the spill was small, rain made the clean-up difficult.
28/04/06 1215 Hrs	KEWDALE	Organophosphorus Pesticide, Toxic, Flammable UN 3017	Approximately 100–200 L of pesticide spilled from a freight container at a rail yard.
19/04/06	FREMANTLE	Styrene Monomer, Inhibited. UN 2055	A fitting on a 26 kL tank container was knocked and damaged while being loaded onto a trailer. 2.8 kL of product leaked from the damaged fitting, however this was recovered without further incident.
04/08/06	BAYSWATER	Sodium Cyanide UN 1689	A shipping container loaded with 16 full intermediate bulk containers of sodium cyanide was inadvertently delivered to the wrong premises.  The chemical company concerned has implemented corrective actions to prevent a recurrence.
15/09/06 Approx. 1130 Hrs	KWINANA	Hypochlorite Solution UN 1791	Product was found leaking from a tank container after it had been off-loaded from a road vehicle.  About 20 L was lost as a result of a failed bursting disc on the container.
19/12/06	FREMANTLE	Aviation Turbine Fuel UN 1863	A tank container awaiting loading aboard a vessel bound for Christmas Island was found to be leaking product.  The tank container was isolated and its contents transferred to another container.

## Dangerous Goods Storage Incident Log 2006

Date / Time	Location	Goods	Incident Details
18/01/06 1000 Hrs	KING BAY ROAD, KARRATHA	Ammonium Nitrate UN 1942	A tropical cyclone caused damage to ammonium nitrate bags, with water flow resulting in a small quantity of ammonium nitrate being carried off-site.
08/02/06 1820 Hrs	SERVICE STATION, KARAWARA	Petrol UN 1203	Petrol being dispensed into a 5 L petrol can, by a self-service customer, ignited. The dispenser was damaged, however the customer was not injured.
Between 02 – 03/02/06 2330 Hrs – 0600 Hrs	KWINANA	Sulfuric Acid 98% UN 1830	Failure of a pump seal resulted in approximately 8 kL of acid spilling into the primary bunded area.
25/05/06 1530 Hrs	OCEAN ROAD, KWINANA	Organophosphorus Pesticide, Solid, Toxic UN 2783	Four 200 L drums of dimethoate pesticide was being heated in an oven at 50°C when their lids popped open.  A fire developed and the copious quantities of smoke generated impacted neighbouring sites.  A number of people were affected by the smoke and sought medical attention.
02/06/06 1630 Hrs	SERVICE STATION, GREAT EASTERN HIGHWAY, MIDVALE	LP Gas UN 1075	A member of the public used an improvised delivery system connected to an automotive LP gas dispenser to fill an LP gas cylinder located inside a van.  An explosion and fire occurred during the filling process resulting in considerable damage to the van but no injuries.
18/07/06 1800 Hrs	LEACH HIGHWAY, MYAREE	Petrol UN 1203	Driver inattention during car refuelling caused the spillage of 40-50 L of petrol at a service station.  The spill was contained on-site.
22/07/06 2200 Hrs	CARRINGTON STREET, NEDLANDS	LP Gas UN 1075	Vandals set alight a cage of 24 x 9 kg cylinders at a commercial property.  There were no injuries.
28/07/06	COLLIE	LP Gas UN 1075	1.6 kL of LP Gas was lost from a 7.5 kL tank at a school.  The LP Gas escaped from a damaged reticulation line.  The tank vapour valve was turned off at the time of the incident (but not tagged or locked) and subsequently reopened to cause the release.  The school was evacuated and no injuries sustained.
22/08/06	CHRISTMAS ISLAND	Petrol UN 1203	400 L of petrol was lost from an underground tank as a result of overfilling caused by human error and failure of the tank's overfill shut-off valve.  The fuel station was evacuated and the spill cleaned up.
06/09/06	JOONDALUP	Diesel Fuel C1 combustible liquid	140,000 L of diesel fuel escaped from a split hose connecting a dispenser to underground piping fed with fuel from aboveground storage tanks.  Substantial underground fuel recovery activities have been undertaken.

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23/09/06	JOONDALUP	Diesel Fuel C1 combustible liquid	An aboveground diesel fuel tank was overfilled by approximately 500 L during a tanker unloading operation. Excess fuel was discharged through the tank vent causing some fuel to spray outside of the bunded area.
01/10/06	JANDAKOT	Ammonia, Anhydrous UN 1005	A valve was opened on a refrigeration system in an attempt to steal anhydrous ammonia. This resulted in the formation of an extensive and persistent ammonia cloud.
15/10/06	MARGARET RIVER	Hypochlorite Solution UN 1791	A fire occurred in the rear shed of a laundromat where bleach was being stored. The fire was extinguished after two hours, and water that entered drains was diverted before it entered a nearby dam.
13/10/06 1330 Hrs	WEST KALGOORLIE RD, KALGOORLIE	Ammonium Nitrate UN 1942	A damaged door seal allowed the loss of about 50kg of ammonium nitrate from a rail container at a marshalling yard.
15/10/06	JOONDALUP	Diesel Fuel C1 combustible liquid	A recovery tank was overfilled by 2-3 kL during pumping from diesel fuel recovery bores.
02/11/06 2110 Hrs	MANJIMUP	Chlorine UN 1017	A very small chlorine gas leak occurred at a swimming pool.  All persons were safely evacuated from the site and the drum capped as a precautionary measure by the supplier's emergency response team.
15/12/06	KARRATHA	Insecticide Gas, N.O.S. UN 1968	Several people at a dental clinic were affected by insecticide gas that had been applied at the premises earlier.

# Major Hazard Facilities Incident Log 2006

Date / Time	Location	Goods	Incident Details
04/01/06	KEMERTON	Caustic Soda UN 1824	5-10 tonnes leaked from a storage tank into bund.
26/02/06	KWINANA	Chlorine UN 1017	A leak of chlorine and embedded titanium dioxide particles occurred into the atmosphere.  The root cause of the incident was inadequate implementation of change management procedures and the wrong procurement of materials during maintenance.
24/03/06	KWINANA	Hypochlorite Solution UN 1791	Pipe failure, caused by overpressure, resulted in the loss of 5 kL of sodium hypochlorite solution. Inspection showed that the overpressure event had damaged electrolyser cells, displaced support bolts and caused movement of a scrubber.
26/03/06	KWINANA	Metham Sodium (insecticide) UN 3267	10 kL overflowed from a process tank during transfer. Spill contained in bund.
11/04/06	KWINANA	Petroleum Crude Oil UN 1267	A fire occurred on a crude oil distillation column residue pump, with the fuel coming from a leaking joint. The incident was immediately brought under control without injury or damage to the plant.
12/04/06	BURRUP PENINSULA	Ammonia Anhydrous UN 1005 and Ammonia Solution	A spill of ammonia solution occurred from an ammonia flare stack during startup resulting in unburnt ammonia vapour being released. Ammonia was detected by on-site personnel and also by a person off-site who suffered throat and eye irritation.
20/04/06	KWINANA	90% Ammonium Nitrate solution UN 2426	12 tonnes leak from failed valve to sampling point.
20/04/06	KWINANA	90% Ammonium Nitrate solution UN 2426	A sump pump which is normally used for steam condensate and rainwater became blocked with solidified AN after pumping a large spill. Running a pump against a closure results in heating of contents, which in this case could have caused an explosion.
11/05/06	KWINANA	Chlorine UN 1017	A puff of chlorine was vented into the atmosphere from a filter. The root cause was identified as being due to operator error.
12/05/06	KWINANA	Chlorine UN 1017	An operator was carrying out maintenance work when a chlorine alarm sounded. The operator was carrying, but not wearing, a full-face mask, and was taken to hospital for treatment after receiving oxygen on site.
20/05/06	KWINANA	Hydrochloric Acid UN 1789	A hydrochloric acid valve was deliberately left open.
26/05/06	BURRUP PENINSULA	Release of process gas and amine	A release of process gas and activated methyl diethanol amine (aMDEA) occurred. Due to the hydrogen content, the process gas ignited resulting in a visible flame for a short period of time. Approximately 30 t of 40% strength aMDEA was released resulting in a major liquid spill which caused both surface and groundwater contamination.

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25/06/06	KWINANA	Diesel Fuel C1 combustible liquid	A refuelling hose was severed, releasing approximately 4000 L of product onto a road when a front-end loader drove off with the hose still attached. The spill ran into a stormwater / oil separator and then to a stormwater soak well.
07/07/06	DAMPIER	Ammonia Anhydrous UN 1005	During ship loading, one of the ship's generators tripped resulting in the automatic emergency closure of the ship's manifold hydraulic valve. This resulted in a pressure surge on the loading arm, which caused a small quantity of ammonia (estimated at 1 L) to leak past the rubber seals on the loading arm flange connection to the ship's manifold. Loading was stopped temporarily, the arm visually inspected and pressure tested, and loading then resumed.
11/07/06	HENDERSON	Acetylene, Dissolved UN 1001	During wirebrushing of a devalved acetylene cylinder at a test station, a spark caused acetylene gas to ignite and burn for about a minute.  Following this incident, wire brushes are no longer used.
06 – 08/08/06	BURRUP PENINSULA	Ammonia Anhydrous UN 1005	Releases of unburnt ammonia occurred from a flare over several days due to inadequate process cooling. Persons off-site reported incidents of a strong ammonia smell resulting in irritation and discomfort.
09/08/06	KWINANA	Chlorine UN 1017	A plant operator inhaled chlorine whilst washing down hydrochloric acid from an ion exchange unit. Chlorine gas may have been generated as a result of hydrochloric acid mixing with sodium hypochlorite, etc in a drain.
19/08/06	KWINANA	Cyanide Solution, N.O.S. UN 1935	A small quantity of sodium cyanide was released through a steam line supplying another site.
24/08/06	KWINANA	Sodium Cyanide UN 1689	Approximately 1-2 t of sodium cyanide slurry was released into a bund. No environmental, public or personnel impact resulted.
09 – 11/09/06	KWINANA	Ammonium Nitrate UN 1942	Due to a damaged transfer chute, 5 t of ammonium nitrate prill spilled to the ground.
12/09/06	KWINANA	Ammonium Nitrate UN 1942	Approximately 5 t of product was spill from a damaged prill transfer chute over several days.
15/09/06	KWINANA	Chlorine UN 1017	A puff of chlorine was released.
31/10/06	KWINANA	Titanium Tetrachloride UN 1838	Titanium tetrachloride vapour was released from a chlorinator after being put back into service.
11/11/06	KWINANA	Petroleum Crude Oil UN 1267	A crude oil truck off-loading pipeline developed a leak during a transfer operation. The leak was caused by corrosion under insulation (CUI). Most of the product was recovered during clean up.
13/11/06	KWINANA	Titanium Tetrachloride UN 1838	An emission of titanium tetrachloride occurred from a chlorinator sump scrubber.
30/11/06	KWINANA	Sodium Cynaide residues UN 1689	Cleaner in decontamination area reported ill-health symptoms, later found not to be consistent with cyanide exposure.  Symptoms seem to have been related to previous medical history.

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06/12/06	KWINANA	Chlorine UN 1017	Fugitive chlorine gas was released during decommissioning operations.