

OECD DATABASE ON INDUSTRIAL ACCIDENTS

88-03-21	UK-1	UNITED KINGDOM	KINGS RIPTON/CAMBRIDGE	DOMESTIC LPG TANK
Description: A leak occurred in one of four domestic LPG tanks that were being filled for a home dweller. Sudden ignition. The tank in question exploded, and a fragment was hurled 25 m away where it tore a hole in the tank of a nearby house. The 3 other tanks successfully released their contents via the valves without any damage. Destruction of one house, two garages and the windows of 3 nearby houses.				
Activity: Cost of damage: ? AGS : 2/2/? Potential interest : 5		Products: LPG Quantity: 1 T DESTROYED/2 T INVOLVED		Deaths : 0 Poisoned : 0 Injured : 0
88-04-11	UK-2	UNITED KINGDOM	WALTON-ON-THAMES/SURREY	OVERTURNED TRUCK
Description: A tank truck overturned, crushing the tank and the inside compartments. The entire load flowed into the Thames. Downstream drinking water intake was halted for 7 days (number of users involved not specified)				
Activity: HIGHWAY TRANSPORTATION Cost of damage: Injured : 0 AGS : // Potential interest : 1		Products: GASOLINE/GAS OIL Quantity: A TOTAL OF 32 000 L		Deaths : 0 Poisoned : 0 Injured :
88-06-14	UK-3	UNITED KINGDOM	PENRHYNDEUDRATH / GWYNEDD	ICI / DYNAMITE
Description: A series of four explosions involving a batch reactor. Destruction of the facility's firefighting water system, making it necessary to implement an emergency system. 8 people suffered slight injuries (not mentioned in the OECD report). Two operators were killed, projectiles were hurled over a distance of 400 m, and buildings were damaged as far as 800 m away. The blast was heard 20 miles (32 km) away. Activity on the coastal railway line was suspended for several hours. The plant was closed for 2 weeks.				
Activity: EXPLOSIVES Cost of damage: ? AGS : 2/4/? Potential interest : 2		Products: NITROGLYCERINE Quantity: 500 KG		Deaths : 2 Poisoned : 0 Injured : 0
88-06-21	UK-4	UNITED KINGDOM	POOLE/DORSET	CHEMICAL STORAGE FACILITY
Description: A fire in a storage facility was started in the cell containing oxidizing substances (probable cause: exothermic breakdown). Since the compartments were not adequately fire resistant, the fire spread to nearby cells containing liquid inflammable substances and waste. Because of the release of toxic fumes, 3 000 people had to be evacuated for one day (the OECD report failed to mention that 14 people suffered slightly from the fumes). Most of the water used for putting out the fire was recovered and collected in tanks. The remainder was dumped after being diluted. Five barrels (solvents) were ejected from the site.				
Activity: CHEMICAL WAREHOUSING Cost of damage: ? AGS : /1/3 Potential interest : 5		Products: OXIDIZING PRODUCTS/INFLAMMABLE SOLVENTS Quantity:		Deaths : 0 Poisoned : 0 Injured : 0
88-07-06	UK-5	UNITED KINGDOM	NORTH SEA (off the coast of SCOTLAND)	PIPER ALPHA PLATFORM
Description: Leak of recondensed gas during repairs to a pump. The explosion damaged the control room of the generating plant, putting all the control and emergency units out of action. The fire developed in 20 minutes with the explosion of gas. Failure of the emergency system at various levels: helicopters could not be used because of the smoke, the system for automatically inflating the life rafts was faulty and the operators were not able to use the manual fire hoses.				
Activity: PETROLEUM INDUSTRY Cost of damage: ? AGS : ?/6/? Potential interest : 5		Products: HYDROCARBON GASES Quantity: ?		Deaths : 167 Poisoned : 0 Injured : 0
88-07-07	UK-6	UNITED KINGDOM	CAMELFORD/CORNWALL	DRINKING WATER PLANT
Description: A driver delivered 20 tonnes of aluminum sulphate to a water treatment plant outside of office hours and on a day he was not expected. By mistake, he poured the product into the drinking water tank supplying the distribution system. Minor consequences for human health but high mortality rate among animals over the next 2 weeks (>1 300 hens, >10 lambs, >35 ducklings).				
Activity: WATER TREATMENT Cost of damage: ? AGS : ?/4/? Potential interest : 5		Products: ALUMINUM SULPHATE Quantity: 20 T		Deaths : 0 Poisoned : 100 Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

88-08-21	UK-7	UNITED KINGDOM	FETTERCAIRN/KINCARDINE	AGRICULTURAL STORAGE FACILITY
Description: The driver of a tank truck started driving away while the tank was still connected to the storage facility. The hose was ripped away and 4 tonnes of sulphuric acid poured out, eventually flowing into a river. The addition of neutralizing agents failed to prevent a high mortality rate among fish life. An estimated 10 000 fish were killed over an 8-km stretch.				
Activity: AGRICULTURE		Products: SULPHURIC ACID		Deaths : 0
AGS : /3/		Quantity: 4 T SPILLED		Poisoned : 0
Potential interest : 2				Injured : 0
88-11-02	UK-8	UNITED KINGDOM	HULL/HUMBERSIDE	
Description: Leak of acetone in a shop where aerosol paint cans were being packed. The leak originated in a parcel on a lift truck. The operator triggered ignition by turning on an electric switch. The fire spread throughout the facility. 150 firemen rushed to the scene. The residents on 2 nearby streets were evacuated. The fire was brought under control in 3 hours. Butane tanks were involved (no available details).				
Activity: MANUFACTURE OF PAINT		Products: ACETONE/BUTANE		Deaths : 1
Cost of damage: >1 MILLION POUNDS		Quantity: ?		Poisoned : 0
AGS : /3/3		Potential interest : 3		Injured : 5
88-11-15	UK-10	UNITED KINGDOM	WEST BROMWICH/WEST MIDLANDS	TANK TRUCK TRANSPORTING NITRIC ACID
Description: Used nitric acid was being shipped from a plant to a treatment centre in an unprotected tank. Serious corrosion of the tank resulted in rupture of the delivery hose and loss of the drain-off valve. The acid poured out onto the highway and a nitrogen oxide cloud spread over the sports field of a school. Sixty people, including 40 children, received medical attention. Thirty people were hospitalized. The carrier was fined £4 500.				
Activity: HIGHWAY TRANSPORTATION		Products: NITRIC ACID		Deaths : 0
Cost of damage: ?		Quantity: 1 300 KG SPILLED		Poisoned : 30
AGS : ?/3/1		Potential interest : 4		Injured : 0
88-12-03	UK-9	UNITED KINGDOM	MILFORD HAVEN / DYFED	UNLOADING OF AN OIL TANKER
Description: 100 tonnes of oil were spilled as the load from an oil tanker was being transferred to the storage facilities of a petrochemical site. Serious pollution of 5 miles (8 km) of shoreline. Several hundred employees from local public departments were involved in cleanup operations which lasted several days. Two large fish farms were affected.				
Activity: PETROLEUM INDUSTRY		Products: LIGHT CRUDE OIL		Deaths : 0
Cost of damage: ?		Quantity: 100 T SPILLED		Poisoned : 0
AGS : //3		Potential interest : 2		Injured : 0
89-01-05	UK-11	UNITED KINGDOM	WALTHAM ABBEY / ESSEX	EXPLOSIVES FACTORY
Description: Overheating in a bunker resulted in an explosion with the release of a nitric acid and trioxylene cloud. No consequences for humans but destruction of the reactor building. No other available details.				
Activity: EXPLOSIVES		Products: NITRIC ACID/TRIOXYLENE		Deaths : 0
Cost of damage: ?		Quantity: ?		Poisoned : 0
AGS : //		Potential interest : 2		Injured : 0
89-03-22	UK-12	UNITED KINGDOM	PETERSBOROUGH / CAMBRIDGE	EXPLOSIVES VAN
Description: Fire and explosion involving a van transporting industrial explosives and detonators. Toll: 1 dead and 80 injured, 2 of them seriously. A nearby plant and 5 industrial buildings were destroyed. Windows over a 1-mile area were shattered.				
Activity: HIGHWAY TRANSPORT		Products: NITROGLYCERINE/AMMONIUM NITRATE		Deaths : 1
Cost of damage: ?		Quantity: A TOTAL OF 800 KG		Poisoned : 0
AGS : 2/4/?		Potential interest : 2		Injured : 80

OECD DATABASE ON INDUSTRIAL ACCIDENTS

89-04-01	UK-13	UNITED KINGDOM	NORWICH/NORFOLK	METHYL-NITROIMADAZOLE PRODUCTION
Description: Leaking flange seal on a valve connection resulted in the release of an SO ₂ cloud that drifted beyond the confines of the facility. The public was ordered to stay indoors, and road traffic was halted for one hour in the vicinity of the site.				
Activity: CHEMICAL INDUSTRY Cost of damage: ? AGS : 1/1/? Potential interest : 2		Products: OLEUM Quantity: 80 KG RELEASED		Deaths : 0 Poisoned : 23 Injured : 0
89-04-28	UK-14	UNITED KINGDOM	GRIMSBY/HUMBERSIDE	REFRIGERATED STORAGE FACILITY
Description: A pipeline supplying ammonia under pressure in the refrigeration circuit of a cold store burst. Rapid dispersion of the cloud made it necessary to evacuate 400 people in the vicinity. 23 people had to be hospitalized for special treatment.				
Activity: AGRIFOOD INDUSTRY Cost of damage: ? AGS : 1/3/2 Potential interest : 4		Products: LIQUEFIED AMMONIA Quantity: 400 KG RELEASED		Deaths : 0 Poisoned : 23 Injured : 0
89-05-18	UK-15	UNITED KINGDOM	HULL/HUMBERSIDE	ON-SITE TRANSPORTATION
Description: A truck tank at an industrial storage site burst (circumstances unstated). Twenty tonnes of sulphuric acid were dumped into the public sewer system. Dilution with a large amount of water from the Hull River.				
Activity: STORAGE OF CHEMICALS Cost of damage: ? AGS : // Potential interest : 2		Products: SULPHURIC ACID Quantity: 20 T SPILLED		Deaths : 0 Poisoned : 0 Injured : 0
89-06-09	UK-16	UNITED KINGDOM	SHEFFIELD/SOUTH YORKSHIRE	WATER PURIFICATION PLANT
Description: A pipeline in a concentration-monitoring unit in a water purification plant burst, releasing 6 tonnes of aluminum sulphate into a 70 000-m ³ tank holding drinking water. A concentration of 0.8 mg/L was recorded, i.e. 4 times the acceptable community standard. The addition of lime (?) reduced concentrations to 0.2 mg/L in 24 hours.				
Activity: WATER TREATMENT Cost of damage: ? AGS : 1/?/4 Potential interest : 3		Products: ALUMINUM SULPHATE Quantity: 6 T (1 500 GALLONS) RELEASED		Deaths : 0 Poisoned : 0 Injured : 0
89-07-06	UK-17	UNITED KINGDOM	BILLINGHAM/TEESIDE	UREA PRODUCTION UNIT
Description: Explosion in an urea production unit following the mechanical failure of a pump. Release of an ammonia cloud outside the facility. Two workmen killed. A number of people suffered from minor discomfort outside the facility.				
Activity: CHEMICAL INDUSTRY Cost of damage: ? AGS : /3/ Potential interest : 4		Products: AMMONIA Quantity: ?		Deaths : 2 Poisoned : 0 Injured : 1
89-08-19	UK-20	UNITED KINGDOM	BROMBOROUGH/MERSEYSIDE	PIPELINE
Description: Leak in a feed line of a petroleum refinery caused by corrosion or metal fatigue. The leak was detected with monitoring equipment and located and sealed after 1 and 3 hours, respectively. Serious pollution along 50 km of shoreline at the mouth of the Mersey River. 3 000 birds were affected. 200 died. Use of 4 000 L of detergents. Compensation payments up to 10 MFF.				
Activity: OIL REFINERY Cost of damage: > 10 million Frcs AGS : ?/4/? Potential interest : 4		Products: CRUDE OIL Quantity: 150 T SPILLED		Deaths : 0 Poisoned : 0 Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

89-08-27	UK-21	UNITED KINGDOM	RUNCORN/CESHIRE	CFC PRODUCTION UNIT
Description: Leak in a CFC production unit (causes and circumstances not stated). Outside emergency plan set in motion. Traffic on the expressway was halted, and the public was instructed to remain indoors.				
Activity: CHEMICAL INDUSTRY Cost of damage: ? AGS // Potential interest : 5		Products: HYDROCHLORIC ACID / HYDROFLUORIC ACID Quantity: ? / ?		Deaths : 0 Poisoned : 0 Injured : 0
89-09-21	UK-22	UNITED KINGDOM	GREATHAM/TEESIDE	TITANIUM DIOXIDE (PIGMENT) PRODUCTION
Description: TiCl ₄ leak located and sealed 1½ hours after it was detected. Road traffic was halted, and workers on the site were instructed to remain indoors. The leak is thought to have been due to maintenance work. Two people who suffered from poisoning were hospitalized. One died after 3 weeks.				
Activity: CHEMICAL INDUSTRY Cost of damage: ? AGS : /3/ Potential interest : 5		Products: TITANIUM TETRACHLORIDE Quantity: ?		Deaths : 1 Poisoned : 1 Injured : 0
89-11-14	UK-23	UNITED KINGDOM	IMMINGHAM/HUMBERSIDE	RESERVOIR OVERFLOW
Description: A 2 600-tonne reservoir was overfilled, resulting in the overflow of 70 tonnes, most of which ended up in the retention pond. The spill was covered with foam (8 000 kg emulsifier used). A protection area was established. Seven people had to be hospitalized for fume inhalation.				
Activity: STORAGE Cost of damage: ? AGS : 2/2/2 Potential interest : 5		Products: BENZENE Quantity: 70 T SPILLED/2 600 T INVOLVED		Deaths : 0 Poisoned : 7 Injured : 0
89-11-22	UK-24	UNITED KINGDOM	OLDBURY/WEST MIDLANDS	COLLISION OF TWO TRUCKS
Description: A tank truck transporting gasoline collided with another truck. The contents of the tank spilled on the ground. This was followed by an explosion and a fire which destroyed both trucks, 2 other vehicles and damaged a nearby industrial building. A second explosion occurred shortly after firefighters arrived. The fire was extinguished after 105 minutes. Because the officials in charge of water matters were quickly alerted, it was possible to prevent the water used for putting out the fire from running off into the nearby river.				
Activity: HIGHWAY TRANSPORTATION Cost of damage: ? AGS : // Potential interest : 3		Products: GASOLINE Quantity: 13 T LOST OUT OF 18 T		Deaths : 0 Poisoned : 0 Injured : 0
89-03-06	UK-25	UNITED KINGDOM	WOKING / SURREY	FAILURE OF STORAGE TANK
Description: Fire at a timber treatment works during overnight shut down caused a storage tank to fail, releasing 30 000 litres of vaxsol into a tributary of the river Bourne. Intakes to drinking water supply closed. Thousand of fish and invertebrates killed along Bourne and Thames. Lasting environmental effects.				
Activity: TIMBER TREATMENT Cost of damage: ? AGS : Potential interest : 4		Products: LINDANE / TRIBUTYL TIN OXIDE Quantity: 30 t released		Deaths : 0 Poisoned : 0 Injured : 0
90-03-20	UK-26	UNITED KINGDOM	STANLOW / CHESHIRE	RUNAWAY REACTION
Description: Within normal operation of a unit producing chlorofluoroaniline, runaway reaction due to contamination of 2,4difluoronitrobenzene (DFNB) and 2,4 dichloronitrobenzene (DCNB) with acetic acid. Pressure rised caused pipework failure, producing a a jet fire. Vessels failed producing a large fire ball, causing blast damage 500 m away and projecting missiles up to 500 m. The fluoroaromatics plant was devastated and nearby storage vessels containing xylene were ignited. On-site plan activated (>200 responders).				
Activity: CHEMICAL INDUSTRY Cost of damage: ? AGS : Potential interest : 5		Products: DFNB + DCNB / XYLENE / DIMETHYLACETAMIDE Quantity: 4t / ? / 6t		Deaths : 1 Poisoned : 0 Injured : 5

OECD DATABASE ON INDUSTRIAL ACCIDENTS

90-04-13	UK-27	UNITED KINGDOM	CHELMSFORD / ESSEX	PLATING WORKSHOP
Description: In a plating workshop in normal operation, thermostat failed on a vat of chemicals causing a fire. Other chemicals, including 50 l of diluted potassium cyanide, spilled into the fire. Off-site emergency response (60 responders). Evacuation of 1000 people for 6.5 hours, 22 people treated for dizziness, nausea, and skin and eyes irritation. Investigation of local authorities for water pollution (no environmental effects).				
Activity: ELECTRONICS INDUSTRY		Products: POTASSIUM CYANIDE		Deaths : 0
Cost of damage: ?		Quantity: 50 L (DILUTION)		Poisoned : 22
AGS : Potential interest : 5				Injured : 0
90-07-12	UK-28	UNITED KINGDOM	BIRKENHEAD / MERSEYSIDE	SHIP UNLOADING
Description: Valve not sealed properly and accidentally opened while tanker being cleaned following a 120 000 t discharge. Cleanup operations involving 10 miles of affected shoreline along the Mersey estuary (300 people).				
Activity: OIL SEA TRANSPORT		Products: CRUDE OIL		Deaths : 0
Cost of damage: ?		Quantity: 10 t released		Poisoned : 0
AGS : Potential interest : 2				Injured : 0
90-07-25	UK-29	UNITED KINGDOM	BIRMINGHAM / WESTMIDLANDS	OVERHEATING OF CLEANING TANK
Description: Tanks used for cleaning metal frames overheated and ignited due to poor control, giving off a mile-long toxic cloud containing hydrogen chloride and phosgene. About 60 people evacuated from home and several hundreds of people warned to stay indoors. At least 60 people treated in hospital for irritation of the eyes and throat.				
Activity: METAL PRODUCTS		Products: METHYLENE DICHLORIDE		Deaths : 0
Cost of damage: ?		Quantity: 4 t released		Poisoned : 60
AGS : Potential interest : 5				Injured : 0
90-08-04	UK-30	UNITED KINGDOM	PORTISHEAD / AVON	PHOSPHORUS DRUMS
Description: Extreme hot weather caused phosphorus to expand in 200 drums stored in a warehouse, and 50 of them to crack. The phosphorus ignited and a fireball was reported. The resulting cloud spread over 30 miles. Off-site plan activated and 100 responders mobilized. The fire took 2 hours to bring under control. Local health authorities monitor effects on population and 200,000 people warned to stay indoors during 2 hours. Circulation interrupted on nearby motorways.				
Activity: CHEMICAL INDUSTRY		Products: PHOSPHORUS		Deaths : 0
Cost of damage: ?		Quantity: 200 drums at risk / 50 drums involved		Poisoned : 0
AGS : Potential interest : 5				Injured : 0
90-08-15	UK-18	UNITED KINGDOM	RUNCORN / CHESHIRE	
Description: An unstated amount of chlorine was released for one hour following a fire due to a dangerous chemical reaction. The fire was brought under control within 2 hours by over 200 rescue workers. Limited damage due to favourable wind direction and the time of the accident (11 p.m.) Three employees from a nearby company, however, had to be hospitalized for chlorine inhalation.				
Activity: CHEMICAL INDUSTRY		Products: CHLORINE		Deaths : 0
Cost of damage: ?		Quantity: ?		Poisoned : 3
AGS : 7/2/3 Potential interest : 5				Injured : 0
90-08-27	UK-31	UNITED KINGDOM	BILLINGHAM / CLEVELAND	ACRYLICS
Description: Operator clearing a line in preparation for maintenance work. Acid released instead of being sent to storage tank (cause unknown). On alarm being raised, 2000 workers went to toxic refuges. On and off-site plans activated. Local roads closed until checked for toxic materials -not found. Spill contained on-site, cleaned by company own response team and external firefighters (20 people).				
Activity: CHEMICAL INDUSTRY		Products: HYDROCYANIC ACID		Deaths : 0
Cost of damage: ?		Quantity: 50 kg		Poisoned : 1
AGS : Potential interest : 4				Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

90-10-08	UK-32	UNITED KINGDOM	COOKLEY GREEN / OXFORDSHIRE	PROPANE ROAD TANKER
Description: Bolts of a main valve sheared off during delivery of propane to a private home. A 40 feet wide cloud formed. Homes were evacuated, power supplies cut off and road closed. The tanker was towed to a field where a relief tanker transferred the remaining propane.				
Activity: ROAD TRANSPORTATION Cost of damage: AGS : Potential interest : 3		Products: PROPANE Quantity: ? (6 t at risk)		Deaths : 0 Poisoned : 0 Injured : 0
90-10-11	UK-33	UNITED KINGDOM	CORYTON / ESSEX	
Description: Loading overflow at Coryton terminal, 60 t of heavy fuel oil spilt from oil tanker to Thames estuary. Threat to 200,000 seabirds on LEIGH-ON-SEA marshes and mudflats. Clean up operations instigated and successful. Master charged with unlawful discharge.				
Activity: SEA TRANSPORT Cost of damage: ? AGS : Potential interest : 2		Products: HEAVY FUEL OIL Quantity: 60 t released		Deaths : 0 Poisoned : 0 Injured : 0
90-10-23	UK-34	UNITED KINGDOM	M1 MOTORWAY / HERTFORDSHIRE	
Description: Load (drums ?) failed onto the road (cause not precised). Several people attempting to deal with the disruption on the motorway were affected by the chemical released.				
Activity: ROAD TRANSPORT Cost of damage: ? AGS : Potential interest : 2		Products: Hydrobromic acid Quantity: ?		Deaths : 0 Poisoned : ? (several) Injured : 0
90-11-05	UK-35	UNITED KINGDOM	MILFORD HAVEN / DYFED - WALES	FUEL BARGE
Description: Due to unknown causes, barge containing 220 t of medium fuel oil sank, releasing 100 t of product to the harbour. SEVERN estuary polluted 8 km long. Five mile slick sprayed with dispersants. Commercial oyster farms threatened. Hundreds of sea birds affected.				
Activity: SEA TRANSPORT Cost of damage: Clean up > £100,000 AGS : Potential interest : 3		Products: MEDIUM FUEL OIL Quantity: 100 t released (220 t at risk)		Deaths : 0 Poisoned : 0 Injured : 0
90-12-18	UK-36	UNITED KINGDOM	STOCKPORT / GREATER MANCHESTER	LPG BOTTLE FILLING
Description: Leak of propane during filling and pressure testing of cylinders in a LPG filling station. Explosion occurred, blowing a hole in the roof and causing a small fire. Four employees were taken to hospital for burn injuries.				
Activity: LPG INDUSTRY Cost of damage: ? AGS : Potential interest : 4		Products: PROPANE Quantity: ?		Deaths : 0 Poisoned : 0 Injured : 4
91-01-10	UK-37	UNITED KINGDOM	SOUTHAMPTON / HAMPSHIRE	PETROL ROAD TANKER
Description: In heavy rain, road tanker ploughed into wreckage of crashed van and car near Southampton. Rupture of the petrol tanker caught fire.				
Activity: ROAD TRANSPORT Cost of damage: ? AGS : Potential interest : 2		Products: PETROL Quantity: ?		Deaths : 2 Poisoned : 0 Injured : 3
91-01-13	UK-38	UNITED KINGDOM	SPONDON / DERBYSHIRE	ACETATE PLANT
Description: In an acetate production plant, during maintenance operations, welding works ignited acetone vapour leak through faulty seal. Resulting blast heard 10 miles away. Some releases of acetone to drains following incident causing fish kill. All employees on site were injured, non serious. No fire followed the blast. 40 people involved in emergency response.				
Activity: CHEMICAL INDUSTRY Cost of damage: ? AGS : Potential interest : 4		Products: ACETONE Quantity: ?		Deaths : 0 Poisoned : 0 Injured : 11

OECD DATABASE ON INDUSTRIAL ACCIDENTS

91-05-06 UK-39 UNITED KINGDOM MANSFIELD / NOTTINGHAMSHIRE

Description:

Arson suspected as cause of fire in stockyard of plastics factory in normal operation. LPG storage threatened but not involved. Toxic fumes from fire, molten plastics flowed into streets.

Activity: PLASTICS INDUSTRY
Cost of damage: ?
AGS: Potential interest : 4

Products: PLASTICS
Quantity: 600 t at risk

Deaths: 0
Poisoned: 0
Injured: 0

91-05-08 UK-40 UNITED KINGDOM WANDSWORTH / LONDON

DOMESTIC WASTE DISPOSAL

Description:

Glass containers of titanium tetrachloride accidentally picked up with domestic wastes. Toxic fumes emitted when containers broken at dump.

Activity: WASTE INDUSTRY
Cost of damage: ?
AGS: Potential interest : 3

Products: TITANIUM TETRACHLORIDE
Quantity: ?

Deaths: 0
Poisoned: 8
Injured: 0

91-05-10 UK-41 UNITED KINGDOM PAISLEY / SCOTLAND

Description:

During normal plant operation, an explosion in a scrubbing vessel lead to release of hydrogen chloride gas. Emergency response involved 40 people, 80 workers were evacuated safely and 3 members of the Paisley Organ Club, who were rehearsing in the factory canteen, were taken to hospital complaining of skin irritation and sore throats.

Activity: CHEMICAL INDUSTRY
Cost of damage: ?
AGS: Potential interest : 4

Products: HYDROGEN CHLORIDE
Quantity: ?

Deaths: 0
Poisoned: 3
Injured: 0

91-05-17 UK-42 UNITED KINGDOM HALEWOOD / MERSEYSIDE

CAR PAINT SHOP

Description:

At 15:20, during tanker unloading, acid is accidentally pumped into a wrong tank containing alkali, producing a huge cloud of nitrous oxide. 3,500 workers evacuated, roads sealed off and people as far as Warrington (distance not provided) told to stay indoors.

Activity: FABRICATED METAL PRODUCTS
Cost of damage: ?
AGS: Potential interest

Products: NITROUS OXIDE
Quantity: ?

Deaths: 0
Poisoned: 23
Injured: 0

91-09-03 UK-43 UNITED KINGDOM IMMINGHAM / HUMBERSIDE

INCOMPATIBLE MIXTURE IN WASTES

Description:

In a waste container (skip) magnesium burnt with ammonium nitrate to produce a chemical "fog". Fire tackled with a chemical agent. Nearby residents told to remain indoors, 126 of them received hospital treatment for inhalation effects

Activity: FERTILIZERS PLANT
Cost of damage: ?
AGS: Potential interest : 5

Products: MAGNESIUM / AMMONIUM NITRATE
Quantity: ?

Deaths: 0
Poisoned: 126
Injured: 0

91-10-31 UK-44 UNITED KINGDOM BELVEDERE / LONDON

Description:

On an "industrial estate", ethyl mercaptan leak from the base of a 200 l drum. Nearby families evacuated and area sealed off while drum made safe. Nine people taken to hospital.

Activity: ?
Cost of damage: ?
AGS: Potential interest : 3

Products: ETHYL MERCAPTAN
Quantity: ?

Deaths: 0
Poisoned: 9
Injured: 0

91-12-26 UK-45 UNITED KINGDOM NORTHWAY / GLOUCESTERSHIRE

Description:

Electrical fault believed to have started fire at electronics plant. Copper sulphate and formaldehyde involved in fire. 60 firemen involved, 5 firemen treated in hospital for smoke inhalation and skin irritation. 20 families evacuated.

Activity: ELECTRONICS
Cost of damage: ?
AGS: Potential interest :

Products: COPPER SULPHATE / FORMALDEHYDE
Quantity: ? / ?

Deaths: 0
Poisoned: 5
Injured: :

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88-02-05	US-21	USA	JAY/MAINE	FEED LINE AT THE FACILITY
Description: Leak in a feed line of a chlorine dioxide tank (broken end or fitting). No other details available. No significant consequences				
Activity: PAPER MILL Cost of damage: ? AGS: Potential interest : 3		Products: CHLORINE DIOXIDE Quantity: ?		Deaths: 0 Poisoned: 0 Injured: 0
88-05-04	US-22	USA	HENDERSON/NEVADA	PACIFIC ENGINEERING
Description: Fire and a series of explosions in a fuel production unit (ammonium perchlorate) for space shuttle booster rockets. Cause: fire in a dryer (improper maintenance) and inability to bring the fire under control. A crater 120 metres in diameter. Twelve buildings including a nearby plant were destroyed, roofs on houses were blown away. 17 000 people were evacuated following the release of a cloud of toxic smoke (hydrochloric acid). Plant demolished and not rebuilt.				
Activity: MANUFACTURE OF ROCKET ENGINES Cost of damage: > \$70 MILLION AGS: 4/5/3 Potential interest : 5		Products: AMMONIUM PERCHLORATE Quantity: 72 T LOST		Deaths: 2 Poisoned: 0 Injured: 350
88-06-19	US-23	USA	CHARLESTON/SOUTH CAROLINA	SINKING OF A SHIP
Description: A ship sank after breakup of the hull. The causes and circumstances not specified.				
Activity: MARINE SHIPPING Cost of damage: AGS: 1/1/1 Potential interest : 1		Products: MARINE DIESEL Quantity: 175 GAL (1 M ³)		Deaths: 0 Poisoned: 0 Injured: 0
88-07-03	US-26	USA	TONAWANDA/NEW YORK	STORAGE UNIT
Description: Fire in the storage area of a plastic production unit. The cause is thought to be failure of the electric system on a motor. Apparently serious. Pollution of the Niagara River from the water used to extinguish the fire, despite the installation of floating booms.				
Activity: PRODUCTION OF PLASTICS Cost of damage: ? AGS: Potential interest : 4		Products: ISOBUTYLENE/PHENOL/FORMALDEHYDE Quantity: ?/?/?		Deaths: 0 Poisoned: 0 Injured: 0
88-07-15	US-24	USA	TORRANCE/LOS ANGELES	STRIPPING
Description: Explosion during residue stripping operations. No available details. Toll: 1 dead and 2 injured. No other information.				
Activity: OIL REFINERY Cost of damage: ? AGS: ?/3/? Potential interest : 5		Products: HYDROGEN PEROXIDE / BROMINE / ARSENIC Quantity: A TOTAL OF 600 BARRELS (95 M ³)		Deaths: 1 Poisoned: 0 Injured: 2
88-07-23	US-1	USA	CHICAGO, ILLINOIS	STORAGE FACILITY
Description: Sulphuric acid leak lasting 17 hours in the draw-off line of a tank. The absence of a suitable pump hampered efforts to pump up the product. No information available on possible damage.				
Activity: FOOD INDUSTRY Cost of damage: ? AGS: Potential interest : 3		Products: SULPHURIC ACID Quantity: 27.3 T		Deaths: 0 Poisoned: 0 Injured: 0
88-07-25	US-28	USA	BADLEVILLE/ILLINOIS	PREHEATING OF A REACTOR
Description: As a result of human error or failure of the preheating system, vinyl acetate was inadvertently heated in a polymerization reactor. Gases escaped from the valve and exploded. The production unit was razed to the ground and will not be rebuilt because of the cost of the undertaking.				
Activity: POLYMER PRODUCTION Cost of damage: ? AGS: 2/3/? Potential interest : 4		Products: VINYL ACETATE Quantity: 1 400 KG		Deaths: 1 Poisoned: 0 Injured: 4

OECD DATABASE ON INDUSTRIAL ACCIDENTS

88-07-30	US-26	USA	ALTOONA/IOWA	TRAIN DERAILMENT
Description: Derailment of a freight train. The exact nature of the accident not specified. 4 people injured. No details available.				
Activity: RAILWAY TRANSPORTATION		Products: DENATURED ALCOHOL / GAS OIL		Deaths : 0
Cost of damage: ?		Quantity: ? / ?		Poisoned : 0
AGS : 7/2/7		Potential interest : 2		Injured : 4
88-08-04	US-27	USA	LOUDONVILLE/PENNSYLVANIA	TRAIN DERAILMENT
Description: Train derailment. Causes not given. Leaks in 2 cars and fire. Evacuation of one hundred people. No details available				
Activity: RAILWAY TRANSPORTATION		Products: HEXAMETHYLENE DIAMINE/OCTYL ALCOHOL		Deaths : 0
Cost of damage: ?		Quantity: 35 T		Poisoned : 0
AGS : 2/7/2		Potential interest : 2		Injured : 0
88-08-05	US-31	USA	NASHUA, NEW HAMPSHIRE	CHEMICAL PLANT
Description: A leak of phosphorus trichloride at 6 a.m. with the formation of a toxic cloud that extended beyond the confines of the facility. 36 people in and outside the facility complained of respiratory distress. Twelve of them suffered from poisoning. 1 700 people were evacuated over a 10-km radius.				
Activity: CHEMICAL INDUSTRY		Products: PHOSPHORUS TRICHLORIDE		Deaths : 0
Cost of damage: ?		Quantity: 600 ? (ABBREVIATION = DIESE)		Poisoned : 12
AGS : 7/3/3		Potential interest : 5		Injured : 0
88-08-05	US-30	USA	NASHUA/N.H.	CHEMICAL REACTOR
Description: A hydrochloric acid leak developed in a chemical plant following water contamination of a reactor. No other information available. The acid cloud extended over a distance of 3 miles (5 km). No report of any consequences.				
Activity: CHEMICAL INDUSTRY		Products: HYDROCHLORIC ACID		Deaths : 0
Cost of damage: ?		Quantity: ?		Poisoned : 0
AGS :		Potential interest : 3		Injured : 0
88-08-10	US-2	USA	SAINT LOUIS/MISSOURI	REACTOR LINE
Description: During shutdown (of a unit?), a line broke while formaldehyde was being recirculated in a reactor. Monitor lances were used to control the fumes resulting from the leak. The spill was diluted with water and then sent to the facility's purification station. The residues were neutralized with sodium.				
Activity: CHEMICAL INDUSTRY		Products: FORMALDEHYDE		Deaths : 0
Cost of damage: ?		Quantity: 700 KG		Poisoned : 0
AGS : //		Potential interest : 2		Injured : 0
88-08-16	US-3	USA	ST JOHNS/ARIZONA	STORAGE FACILITY
Description: Corrosion of the draw-off line tap on a sulphuric acid tank. The introduction of moist air during maintenance operations may have been responsible. No information available.				
Activity: POWER PLANT		Products: SULPHURIC ACID		Deaths : 0
Cost of damage: ?		Quantity: 0.7 T		Poisoned : 0
AGS :		Potential interest : 2		Injured : 0
88-09-03	US-4	USA	COLUMBUS/OHIO	SIC 2000
Description: During simultaneous but uncoordinated maintenance operations, the power supply controlling a safety valve was cut while the valve was shutting off the ammonia circuit because the refrigeration unit was open. The valve was designed to remain in the open position with the power off. The area near the leak and above the unit was hosed down with water. The ammonia-water solution ended up in the sewer system. The authorities responsible for the sewer system were notified.				
Activity: INDUSTRIAL BAKERY		Products: AMMONIA		Deaths : 0
Cost of damage: ?		Quantity: 1.03 T RELEASED		Poisoned : 0
AGS : 2/1/7		Potential interest : 3		Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

88-09-06	US-5	USA	PAGEDALE/MISSOURI	STORAGE TANK
Description: As a result of failure of a tank (cause not given), sulphuric acid spilled into a well where it was neutralized with lime.				
Activity: CLEANING PRODUCTS Cost of damage: ? AGS: 2/1/1 Potential interest: 1		Products: SULPHURIC ACID Quantity: 900 KG SPILLED		Deaths: 0 Poisoned: 0 Injured: 0
88-09-14	US-6	USA	CHICAGO/ILLINOIS	STORAGE FACILITY
Description: A 1-inch plug burst, resulting in leakage that lasted 4 hours. Measures were taken to contain and absorb the product with slag dust. The contaminated products were disposed of after the accident. No significant damage.				
Activity: METALLURGY AND COKE Cost of damage: ? AGS: 2/1/1 Potential interest: 3		Products: POTASSIUM CYANIDE / AMMONIA Quantity: 7-10 KG/1.3-3.9 T		Deaths: 0 Poisoned: 0 Injured: 0
88-09-19	US-7	USA	SOUTH GATE/CALIFORNIA	UNLOADING OF A FREIGHT CAR
Description: Operational error while a freight car containing chlorine was being unloaded (a valve was left open). Finally the automatic valve on the tank and manual valve on the car were closed. 200 kg of chlorine were released. Two employees suffered from poisoning. No consequences beyond the confines of the facility.				
Activity: CLEANING PRODUCTS Cost of damage: ? AGS: 2/2/? Potential interest: 4		Products: CHLORINE Quantity: 200 KG RELEASED		Deaths: 0 Poisoned: 2 Injured: 0
88-09-21	US-8	USA	MT. VERNON/INDIANA	PLUGGING OF A VENT
Description: A poorly designed relief pipe became plugged and burst under excess pressure. No special consequences.				
Activity: THERMOPLASTICS Cost of damage: ? AGS: 1/1/1 Potential interest: 3		Products: NITROGEN DIOXIDE Quantity: 30 KG RELEASED		Deaths: 0 Poisoned: 0 Injured: 0
88-09-30	US-9	USA	ENID / OKLAHOMA	REFRIGERATION COMPRESSOR
Description: During a shutdown manoeuvre, the sharp drop in the operating rate of the boiler caused a refrigeration unit compressor to slow down with the resulting build-up of pressure in the liquid ammonia stages. A safety valve was opened. No consequences. The boiler was immediately started up again and the shutdown procedure was carried out to its completion without any further mishaps.				
Activity: FERTILIZERS Cost of damage: ? AGS: 2/1/1 Potential interest: 3		Products: AMMONIA Quantity: 2.6 TONNES RELEASED		Deaths: 0 Poisoned: 0 Injured: 0
88-10-03	US-10	USA	NORFOLK / VIRGINIA	STORAGE FACILITY
Description: Release of 15 tonnes of sulphuric acid on the ground following failure of a flange on the draw-off line of a storage facility. Product recovered. Contaminated soil neutralized with sodium bicarbonate and carbonate.				
Activity: MILITARY INSTALLATION Cost of damage: ? AGS: 3/1/1 Potential interest: 1		Products: SULPHURIC ACID Quantity: 15 T SPILLED		Deaths: 0 Poisoned: 0 Injured: 0
88-10-04	US-11	USA	BAUXITE / ARKANSAS	STORAGE FACILITY
Description: Vandals opened the bleeder-line valve on a sulphuric acid tank. The product flowed into the sewer system to the facility's treatment station where it was diluted with wastewater flowing at a rate of 1 000 gallons per minute. The pH was adjusted to normal values by means of neutralization with calcium carbonate in Holly Creek.				
Activity: ORE MINING ? Cost of damage: ? AGS: // Potential interest:		Products: SULPHURIC ACID Quantity: 2 500 GALLONS (9 500 L)		Deaths: 0 Poisoned: 0 Injured: 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

88-10-06	US-12	USA	BISHOP/TEXAS	INCINERATOR
Description: Following the development of a hot point on a residual gas incinerator, the company decided to shut down the incinerator and to continue releasing untreated gases. This situation lasted until the necessary repairs were completed, i.e., after 67 hours. Following complaints of unpleasant odours, the residents of the area were monitored for health problems. No ill effects were detected.				
Activity: RESIN USE Cost of damage: AGS : 3/1/1 Potential interest : 3		Products: FORMALDEHYDE/METHYL ALCOHOL Quantity: 7.2 T/2.7 RELEASED		Deaths : 0 Poisoned : 0 Injured : 0
88-10-21	US-13	USA	PITTSBURG/CALIFORNIA	PROCESS REACTOR
Description: The connection flange on a reactor safety valve was loosened, resulting in a leak and subsequent rupture of the valve's burst disk. This set off the alarm. All the reactors linked to the same delivery system were shut down. The released substance was kept down by means of a sprinkler system, and operators equipped with protective gear were able to tighten the defective flange. No consequences for the environment.				
Activity: MANUFACTURE OF PYRIDINE AND PYRIDINE DERIVATIVES Cost of damage: AGS : 3/1/1 Potential interest : 2		Products: CHLORINE/HYDROCHLORIC ACID Quantity: 900 KG/900 KG		Deaths : 0 Poisoned : 0 Injured : 0
88-11-09	US-14	USA	LAKE CHARLES/LOUISIANA	REFRIGERATION SYSTEM
Description: The mechanical failure of a water pump for cooling an ammonia condenser resulted in the build-up of pressure in the refrigeration system. The collector valve opened and ammonia was released into the air. No significant consequences.				
Activity: CHEMICAL INDUSTRY Cost of damage: AGS : 2/1/1 Potential interest : 2		Products: AMMONIA Quantity: 1.7 T RELEASED		Deaths : 0 Poisoned : 0 Injured : 0
88-11-10	US-15	USA	HAHNVILLE/LOUISIANA	UNLOADING OF A TRUCK
Description: As the contents of a truck were being pumped out, the operator left the truck unattended to perform other operations. In his absence, the tank overflowed, spilling the contents into the retention pond. As the drain-off valve was open, the contents poured into the ditch, which was sealed to prevent the product from leaving the site.				
Activity: EPOXIDATION OF VEGETABLE OILS Cost of damage: AGS : 1/1/1 Potential interest : 2		Products: HYDROGEN PEROXIDE Quantity: 2 27 T SPILLED		Deaths : 0 Poisoned : 0 Injured : 0
88-11-15	US-16	USA	HAWTHORNE/NEVADA	COLD-INDUCED PLUGGING
Description: The very low ambient temperature (16°F = -9°C) caused the line in a precious metal recovery unit to become plugged and burst. The contaminated soil was removed and disposed of. All the facility's outdoor lines were subsequently insulated.				
Activity: METAL PLATING Cost of damage: ? AGS : 3/?/? Potential interest : 2		Products: CYANIDES (IN AQUEOUS SOLUTION?) Quantity: 450 kg		Deaths : 0 Poisoned : 0 Injured : 0
88-11-29	US-29	USA	KANSAS CITY/MISSOURI	ROAD CONSTRUCTION SITE
Description: A fire was intentionally set near a truck with a load of explosives on a highway construction site. The fire caused two explosions involving 10 tonnes, then 15 tonnes of mixture. Toll: 6 dead, an unknown number of persons injured.				
Activity: PUBLIC WORKS AGS : 4/4/? Potential interest : 2		Products: AMMONIUM NITRATE/FUEL OIL Quantity: 25 T OF MIXTURE		Deaths : 6 Poisoned : 0 Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

88-12-08	US-17	USA	LOUISIANA / MISSOURI	LOADING OF A TRUCK
Description: Leak in a loading arm while a tank truck was being loading. The operator had left the truck to complete the operations on a checklist and was unable to act quickly. The acid on the ground was pumped up in 15 minutes.				
Activity: MANUFACTURE OF AMMONIUM NITRATES		Products: NITRIC ACID		Deaths : 0
Cost of damage: ?		Quantity: 6.5 T SPILLED		Poisoned : 0
AGS : Potential interest : 2				Injured : 0
88-12-22	US-18	USA	LAKE CHARLES / LOUISIANA	AUTOMATIC CONTROL SYSTEM
Description: Failure of a valve on an automatic control system in an ammonia production unit at roughly 2:30 a.m. The leak lasted until 5.00 a.m., when the system was finally depressurized. No consequences for the environment.				
Activity: SYNTHESIS OF AMMONIA		Products: AMMONIA		Deaths : 0
Cost of damage:		Quantity: 900 KG RELEASED		Poisoned : 0
AGS : 2/1/1 Potential interest : 3				Injured : 0
88-12-22	US-19	USA	DEER PARK / TEXAS	
Description: A new plastic head was made and installed on the secondary foam hatch in a "chlorowax" production unit. Failure of a 4-inch nozzle when normal operations were resumed. The work had been entrusted to subcontractors and pressure tests had been carried out.				
Activity: CHLORINE PLANT		Products: CHLORINE/HYDROCHLORIC ACID		Deaths : 0
Cost of damage :		Quantity: 30 KG/70 KG RELEASED		Poisoned : 0
AGS : 2/1/7 Potential interest : 3				Injured : 0
88-12-28	US-20	USA	CLINTON/IOWA	PIPELINE AT THE FACILITY
Description: During the transfer of nitric acid from one storage area to another, the operator left a drain valve between the pump and receiving tank open. The acid poured out onto the ground which was covered with a layer of calcium carbonate. More calcium carbonate was added to complete the neutralization process. It was subsequently disposed of by the facility's treatment station.				
Activity: NITROGEN FERTILIZER INDUSTRY		Products: NITRIC ACID		Deaths : 0
Cost of damage: ?		Quantity: 11.8 T SPILLED		Poisoned : 0
AGS : /1/ Potential interest : 1				Injured : 0
89-08-24	US-42	USA	ALEXANDRIA / VIRGINIA	WASTEWATER TREATMENT PLANT
Description: 25 mn leak on a chlorine evaporator temporarily shut down for maintenance. During the test of a jacket water heater, overpressure and failure of the pressure relief valve due to a small amount of chlorine trapped in a pipe despite the evaporator was valved off. After the event, installation of a remote alarm annunciator panel and alarm-activated pressure relief valves. Upgrades of piping (carbon steel) and increased testing procedures. 50 people evacuated.				
Activity: WATER TREATMENT		Products: CHLORINE		Deaths : 0
Cost of damage: ?		Quantity: 0.65 t released		Poisoned : 5
AGS Potential interest : 4				Injured : 0
89-09-16	US-43	USA	SALT LAKE CITY / UTAH	WASTEWATER TREATMENT PLANT
Description: A 1 t cylinder of chlorine overheated and leaked at fuse plug. A chlorine "B" kit was used to stop the leakage. Product contamination due to water was at the origin of the overheating. 12 people injured and damage to vegetation. Measures taken to certify non-contaminated product by the shipper.				
Activity: WATER TREATMENT		Products: CHLORINE		Deaths : 0
Cost of damage: ?		Quantity: 320 kg released		Poisoned : 12
AGS : Potential interest : 4				Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

89-09-21	US-44	USA	PAWTUCKET / RHODE ISLAND	AMMONIA STORAGE
Description: A neoprene gasket between tank and tank gauge split, allowing ammonia to escape during 2 hours. Water fog was used to knock down ammonia vapors. 100 people evacuated during 1 day. On and off-site plans activated.				
Activity: JEWELRY MANUFACTURE Cost of damage: ? AGS: Potential interest : 4		Products: AMMONIA Quantity: 120 kg lost		Deaths : 0 Poisoned : 3 Injured : 0
89-10-23	US-45	USA	HOUSTON PASSADENA / TEXAS	POLYETHYLENE REACTOR
Description: Plant and contractors were clearing polyethylene pluggage from a reactor settling leg. As the leg was not completely isolated, an isolation Demco valve was opened allowing process gas under high pressure to escape. The massive vapor cloud ignited shortly. The initial major explosion was followed by several explosions and fires brought under control after 10 hours. The blast destroyed the plant and threw debris 6 miles away. 23 people killed, 130 people injured in site, some minor injuries out site, pollution of the Houston ship channel by fire water runoff. Property damage exceeded \$750 million. Hundreds of people evacuated during 1 day.				
Activity: POLYETHYLENE PLANT Cost of damage: >\$ 750 million AGS: 4/5/4 Potential interest : 5		Products: ISOBUTANE / ETHYLENE / HEXENE / HYDROGEN Quantity: 40 t lost		Deaths : 23 Poisoned : Injured : 130
89-10-31	US-46	USA	SALEM / MASSACHUSSETS	DRY CLEANING STILL
Description: A gasket was installed on a perchlorethylene still made in a non-specified material. Gasket failed after heating. Absorbent was applied to clean up the spill. Off-site plan activated and 100 people evacuated during 1 day.				
Activity: DRY CLEANING Cost of damage: ? AGS: Potential interest : 3		Products: PERCHLORETHYLENE Quantity: 500 kg released		Deaths : 0 Poisoned : 0 Injured : 0
89-11-09	US-47	USA	TORRANCE / CALIFORNIA	HANDLING OF CHLORINE CYLINDERS
Description: A driver was delivering 150 pounds cylinders of chlorine. One cylinder fell off truck tailgate causing a valve leak. A chlorine "A" kit was installed on the valve to stop the leak. Activation of an emergency off-site plan and evacuation of 1000 persons during 1 day.				
Activity: BLEACH MANUFACTURE Cost of damage: ? AGS: Potential interest : 3		Products: CHLORINE Quantity: 10 kg released		Deaths : 0 Poisoned : 0 Injured : 0
90-04-04	US-48	USA	MICHIGAN CITY/INDIANA	RAIL CAR PARKING AREA
Description: Leak in a freight car containing ammonia left unattended in a parking area. Ammonia escaped from a loose fastening bolt on a valve, possibly the result of a criminal act. 7 000 people were evacuated, while other residents living nearby were instructed remain indoors. The contaminated soil was recovered and mixed with humus, then spread on farmland.				
Activity: RAILWAY TRANSPORTATION Cost of damage: ? AGS: 3/2/3 Potential interest : 3		Products: AMMONIA Quantity: 75 M ³ EXPOSED		Deaths : 0 Poisoned : 7 Injured : 0
90-04-22	US-33	USA	MUSKEGON/MICHIGAN	OVERFILLING OF A TANK
Description: As a result of a procedural error while conducting determinations of a phosphorus oxychloride/hydrochloric acid/phosphoric acid mixture, the quantity-determination tank was overfilled. The mixture flowed through a scrubber intended for the elimination of fumes. This accelerated the vaporization process. The gases were released into the air over a period of 1 hour. Forty-six people outside the facility suffered from poisoning. Measures were taken to evacuate residents or to confine them indoors.				
Activity: CHEMICAL INDUSTRY Cost of damage: 6 AGS: 3/3/2 Potential interest : 5		Products: PHOSPHORUS OXYCHLORIDE/HCL/H ₃ PO ₄ Quantity: 4 T/ 2 T/ 1 2 T		Deaths : 0 Poisoned : 45 Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

90-04-23	US-34	USA	ROTHSCHILD / WISCONSIN	STORAGE FACILITY
Description: Release of chlorine during work by subcontractors to dismantle a draw-off line thought to be no longer in use. The shut-off valve had not been closed. Evacuation and medical examination of 7 subcontractors and 11 of the facility's employees.				
Activity: POWER PLANT Cost of damage: AGS : 3/3/? Potential interest : 4		Products: CHLORINE Quantity: 250 KG RELEASED		Deaths : 0 Poisoned : 18 Injured : 0
90-05-09	US-35	USA	LAFAYETTE / INDIANA	ACCIDENT DUE TO WIND
Description: In 120 km/h winds, siding fell off a building onto an SO ₂ draw-off line. The line and compressed air pipe controlling the shut-off valve for the storage tank were simultaneously sectioned at a point upstream from the valve. 8 employees and 7 people outside the facility suffered from poisoning as a result of the toxic substances released over a 20-minute period.				
Activity: POPCORN FACTORY Cost of damage: ? AGS : 4/3/? Potential interest : 5		Products: SULPHUR DIOXIDE Quantity: 20 T RELEASED OUT OF 60 T		Deaths : 0 Poisoned : 15 Injured : 0
90-05-15	US-36	USA	DECATUR / ILLINOIS	MAINTENANCE WORK ON A REACTOR
Description: Maintenance work on a reactor in which the relief pipe was connected to the relief pipe in another reactor operating on the same discharge system. Backflow of fumes through the relief pipe in the second reactor in which the shut-off valve had remained open. One workman asphyxiated and 4 others hospitalized for poisoning.				
Activity: CORN STARCH Cost of damage: AGS : 1/3/1 Potential interest : 3		Products: PROPYLENE OXIDE Quantity: (photocopy illegible - Translator)		Deaths : 1 Poisoned : 4 Injured : 0
90-06-26	US-37	USA	WATERLOO / IOWA	UNLOADING OF A TRUCK
Description: Failure of a hose supplied by the carrier during the unloading of a truck, followed by failure of the flow-control valve at the unloading station. The driver was unable to reach the emergency stop control. The leak lasted 45 minutes. Fourteen firefighters and 13 residents were treated for minor irritation of the eyes, skin and respiratory tract. Damage to surrounding vegetation.				
Activity: CHEMICAL INDUSTRY Cost of damage: AGS : 3/3/? Potential interest : 5		Products: AMMONIA Quantity: 17 t RELEASED		Deaths : 0 Poisoned : 27 Injured : 0
90-07-19	US-38	USA	CINCINNATI / OHIO	CLEANING OF A REACTOR
Description: Rupture of a reactor's burst disk while the reactor was being cleaned with a mixture of warm solvents. The reactor was being heated manually without any regard for the prescribed procedures and safety checks. Toll: 2 dead and 60 employees and 30 people outside the facility injured. Evacuation of at least 1 000 residents and 80 subcontractors.				
Activity: MANUFACTURE OF INKS Cost of damage: 6 AGS : ?/4/3 Potential interest : 5		Products: "PX" SOLVENTS Quantity: ?		Deaths : 2 Poisoned : 0 Injured : 90
90-07-19	US-39	USA	ADDISON/ILLINOIS	
Description: Due to poor communication, the water chlorination system of a pool was started up while the pool was in use. Abnormally high levels of chlorine were recorded in the pool. 4 employees and 15 bathers suffered from poisoning.				
Activity: SWIMMING POOL Cost of damage: AGS : Potential interest : 1		Products: CHLORINE Quantity: 80 kg RELEASED		Deaths : 0 Poisoned : 19 Injured : 0

OECD DATABASE ON INDUSTRIAL ACCIDENTS

90-08-16	US-40	USA	GRAND PRAIRIE / TEXAS	MAINTENANCE WORK ON STORAGE FACILITY
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Description:

Welding on a tank caused another nearby tank 35 feet (10 m) away to explode. The roof on the latter was ripped off by the explosion. Two men from the subcontracting construction firm were injured. The products generated by the accident were recovered in the retention pond.

Activity: MANUFACTURE OF PAINTS**Products:** ISOBUTYL ALCOHOL/TOLUENE/NAPHTHA**Deaths :** 0**Cost of damage:** ?**Quantity:** 50 kg / 20 kg / 233 (LBS OR 1?)**Poisoned :** 0

AGS : 7/2/1 Potential interest : 3

Injured : 2

90-10-20	US-41	USA	CUMBERLAND/RHODE ISLAND	PROCESS REACTOR
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Description:

Accidental start-up of the heating system of a process staging vessel containing a mixture ready for polymerization. The reaction was attended by an increase in pressure making it necessary to open the pressure-release valve and to cool off the vessel. Five people outside the facility suffered from poisoning.

Activity: EPOXY RESINS**Products:** STYRENE / GLACIAL METHACRYLIC ACID**Deaths :** 0**Cost of damage:** ?**Quantity:** 180 kg / 165 kg**Poisoned :** 5

AGS : 1/2/1 Potential interest : 3

Injured : 0