



Area / Activity	Risk	Control Measures	Risk Level
Stability of device	Collapse, slip, trip, mechanical failure, uneven surfaces.	Device to be assembled by controller or trained personnel, according to instructions	Low
Walk ups, platform, steps.	Slip, trip.	Keep clean and free from any surface water, fit temp steps to any area over 12"	Low
Passenger containment.	Ensure passengers are correctly seated & seat belts are used correctly.	Daily checks / check prior to start of each ride.	Low if controlled
Unloading – loading of passengers	Slip, trip, fall.	Ensure track surface is free from surface water, ensure car floor surfaces are not worn or wet, instructions to be given to walk not run.	Medium if not controlled
Operation of device	Passengers being injured during normal operation.	Passengers to remain seated whilst ride is in motion – ensure 1 direction of travel, no head on bumping.	Low if controlled – the nature of the ride , as the name suggests “bumper cars” involves physical contact between machinery.
Operation of device	Mechanical failure / device stability.	Regular maintainance / daily checks & annual inspection of critical parts.	Low if controlled
Operation of device	Failure of controls / supply.	In event of failure to controls, remove power using isolator, cars will coast to a stop, passengers can be evacuated insitu, should a fault prevent re starting. power to be	Low if correct procedure followed.

		ride, or entering electrical enclosure.	
Fire.	Electrical equipment	Regular maintenance, annual inspection, fire extinguisher.	Low if controlled
Risk to onlookers	Being struck by rider or device	No persons permitted on track/ perimeter walkways whilst device is in motion. Ensure waiting passengers wait behind chain.	Low if controlled
Risk to passengers	Being ejected from ride	Passengers to remain seated, controller to monitor whilst device is in motion, ensure seat belts are used by all passengers at all times.	Low if controlled – high if controller is not vigilant.
Injuries to passengers	Whiplash type injuries	Speed is pre set, acceleration trace recorded, avoid head on bumping, and direct contact with perimeter barriers.	medium.
Operating in extreme temperatures	Hot /cold surfaces, snow loadings.	Clear any standing snow before operation, hot surfaces inform parents if children are not adequately clothed	Low if controlled / correct clothing to be worn.
Failure / incident due to human error	Operation / maintenance	Ensure staff are trained adequately to carry out specific duties	Medium – an element of risk always present
Environmental issues	General issues		
Diesel/ petrol powered generators	General hazards	Fuel spillage, excess exhaust fumes, and excess noise pollution.	Good operating procedures / equipment, will keep risks to a minimum, low if controlled.
Vehicle movement	General issues	Use banksman for reversing, use hazards, sound horn if required, do not rely upon parking brake alone, use a chock.	Low if controlled.