



**ENVIRONMENTAL PERMIT BR7321; MINOR OPERATIONAL CHANGES (1.5)
AUTHORISATION REQUEST TO RUN A CHEMICAL TRIAL**

Line	No 5 Hot Dip Galvanising Line; Chem-Coater
Proposed Date of Trial	
Duration of Trial	1 Hour (20t Steel Coil)
Purpose of Trial	To evaluate if Primecoat Z808 delivers better corrosion performance under commercial production conditions than Primecoat Z801-16/Z801-18
Chemical/Trade Name	Quaker Primecoat Z808 (See Attached MSDS)
Quantity of Chemical Involved	200L (1 x 200L Drum)
Chemical Composition	Zinc Bis (Dihydrogen Phosphate); 10-15%; (Harmful if swallowed; Very toxic to aquatic organisms) Hydrogen-titanium-hexafluorid; 3-5%; (Corrosive; Harmful if swallowed; Very toxic to aquatic organisms)
Description	A light yellow fluid with a characteristic odour which is easily soluble in water and has a pH of 1.5 (Neat Solution @ 20°C)
Conditions to Avoid	Reacts with alkalis, oxidising agents and chemicals that decompose easily by acids (cyanides, sulphides, carbonates etc) Is corrosive to metals; should be stored in original container
Process Description	The chemical will be pumped directly to the spray bars from a 200L barrel containing a premixed solution of appropriate concentration, which is housed on a suitably sized proprietary bund, adjacent to the chemcoater. The chemcoater is itself bundled. The bund has been constructed to ensure that any residues spilled within the area will remain contained, and there is no access to any adjacent drains. Water will be used to wash the system.
Chemical Familiarity	A COSHH assessment will be undertaken prior to use
Environmental Aspects	Environmental Aspects will be added to the Aspects Register
Risk Assessment	A risk assessment will be undertaken and procedures developed/modified as required; prior to use
Chemical Compatibility	The chemical is similar to the Cr free passivation chemicals currently utilised on Galvanising Line No 6 (Passerite 5010) and is compatible with both the chemicals utilised on the line as well as the materials of line construction
Chemical Storage	Incoming chemicals are stored with other compatible materials on a suitably sized proprietary bunds stored at the entry section of Galvanising Line No 6.
Waste Disposal	Any remaining chemical will be stored in the original drum. All wastes generated by the chemcoater; typically from wash down operations will be segregated from chromate wastes and stored in IBCs located on suitably sized proprietary bunds stored at the entry section of No 6 Galvanising Line. The waste will be collected separately from routine wastes and disposed off via a hazardous waste contractor ensuring proper waste classification prior to disposal
Future Requirements	If the initial test results prove satisfactory there will be a future requirement to trial 200T material Q2 2013

