

Number	Hazard	Incident	Source Frequency	Frequency Score	Frequency Phrase	Severity Score	Severity Phrase	Final pathway / receptor	Consequence on receptor	Overall Risk and Significance	Risk Phrase	Risk Management Measures
1	Vehicle Movements on site	Transport Management and Control	Transport Management and Control	4	Somewhat unlikely	1	Minor	Air / land or Air / Surface Water ( Afon Goch or Wen )	Environmental damage to surrounding land	4	Acceptable	a) Transport route for the Tankers in operation b) Barrier protection installed around RTO and Hazardous Material Stores c) Hazardous Materials stores located at the rear of the site
2	Emission from the RTO unit ( Emission Point C1)	Forseeable but unplanned	Failure of RTO or associated downstream concerns	3	Unlikely	2	Noticeable	Air / land or Air / Surface Water ( Afon Goch or Wen )	Environmental damage to surrounding land	6	Acceptable	a) 6 Monthly inspection by Multifan b) Monthly inspection by Maintenance Department c) Modern System to highlight Warnings to Specific Staff d) Shutdown Procedure agreed with IACC
3	Emission from the Precht Extraction Unit ( Emission Point A1)	Forseeable but unplanned	Failure of the bag filters ie lead emission to atmosphere	3	Unlikely	2	Noticeable	Air / land or Air / Surface Water ( Afon Goch or Wen )	Environmental damage to surrounding land	6	Acceptable	a) 12 Monthly inspection by EFS b) Monthly inspection by Maintenance Department c) HEPA filter system in operation d) Enclosure fitted around the External Extractor removal area
4	Emission from the PVC Silo	Forseeable but unplanned	Failure of the bag filters ie PVC emission to atmosphere or spillage during transfer	3	Unlikely	2	Noticeable	Air / land or Air / Surface Water ( Afon Goch or Wen )	Environmental damage to surrounding land	6	Acceptable	a) 12 Monthly inspection by EFS b) Monthly inspection by Maintenance Department c) HEPA filter system in operation d) Raised External Extractor removal area e) Envirovalve , Oil Interceptor & attenuation tank installed
5	Leakage from external raw material storage DS96 & IBC	Forseeable but unplanned	Failure of containment	3	Unlikely	2	Noticeable	Surface water drains to the Afon Wen	Environmental damage to the water course	6	Acceptable if reduced as reasonably practical	a) Fully bunded store b) Monthly inspections c) Spillkit located in vicinity d) Spill team e) Envirovalve , Oil Interceptor & attenuation tank installed
6	Leakage from external raw material storage Maintenance Store , IBC Thinner's Store , 2 IBC Store and Paint / Cleaning Room	Forseeable but unplanned	Failure of containment	3	Unlikely	2	Noticeable	Surface water drains to the Afon Wen	Environmental damage to the water course	6	Acceptable if reduced as reasonably practical	a) Fully bunded store b) Monthly inspections c) Spillkit located in vicinity d) Spill team e) Envirovalve , Oil Interceptor & attenuation tank for the surface water drains off the site f) New Paint Mixing Building
7	Leakage from external waste material storage DS32	Forseeable but unplanned	Failure of containment	3	Unlikely	2	noticeable	Surface water drains to the Afon Wen	Environmental damage to water course	6	Acceptable if reduced as reasonably practical	a) Fully bunded store b) Monthly inspections c) Spillkit located in vicinity d) Spill team e) Envirovalve , Oil Interceptor & attenuation tank for the surface water drains off the site
8	Leakage from damaged liquid drums on delivery	Forseeable but unplanned	Failure of containment	3	Unlikely	2	Noticeable	Surface water drains to the Afon Wen / Goch	Environmental damage to the water course	6	Acceptable if reduced as reasonably practical	a) Fully bunded store b) Monthly inspections c) Spillkit located in vicinity d) Spill team e) Envirovalve , Oil Interceptor & attenuation tank for the surface water drains off the site
9	Leakage from damaged lead containers on delivery	Forseeable but unplanned	Control of material transfer	3	Unlikely	1	Minor	Surface water drains to the Afon Wen / Goch	Environmental damage to the water course	3	Acceptable	a) FLT drivers monitoring any spillages and clean up b) Reviewed by Line Manager on a daily basis c) All spillages immediately cleared
10	Emission to the Afon Goch from the Raw Materials Warehouse	Forseeable but unplanned	Control of material transfer	3	Unlikely	1	Minor	Surface water drains to the Afon Wen / Goch	Environmental damage to the water course	3	Acceptable	a) FLT drivers monitoring any spillages and clean up b) Reviewed by Line Manager on a daily basis c) All spillages immediately cleared
11	Emission to the Afon Wen from the Process Water System	Forseeable but unplanned	Control of water transfer or containment system	3	Unlikely	2	Noticeable	Surface water drains to the Afon Wen	Environmental damage to the water course	6	Acceptable if reduced as reasonably practical	a) Water tanks resealed b) BMS monitoring of water system c) Daily checks on water system d) Envirovalve , Oil Interceptor & attenuation tank for the surface water drains off the site

12	Flooding from the Afon Goch	Forseeable but unplanned	Emergency Response	3	Unlikely	1	Minor	Surface water drains to the Afon Wen	Environmental damage to the water course	3	Acceptable	a) Footbridge removed b) Flood Consequence Assessment completed and implemented in the New Raw Materials Warehouse c) Bank raised around river
13	Main Factory Fire	Forseeable but unplanned	Emergency Response	4	Somewhat unlikely	2	Noticeable	Air / land or Air / Surface Water drains to the Afon Wen	Environmental damage to the water course	8	Acceptable if reduced as reasonably practical	a) New Sprinkler System installed b) Fire Preventative measures in place c) Envirovalve , Oil Interceptor & attenuation tank for the surface water drains off the site
14	Raw Material Warehouse Fire	Forseeable but unplanned	Emergency Response	4	Somewhat unlikely	3	Significant	Air / land or Air / Surface Water drains to the Afon Wen	Environmental damage to the water course	12	Acceptable if reduced as reasonably practical	a) Envirovalve , Oil Interceptor & attenuation tank for the surface water drains off the site b) Fully Sprinklered Building
15	Leakage from the Diesel Tank (FLT )	Forseeable but unplanned	Failure of containment	3	Unlikely	2	Noticeable	Surface water drains to the Afon Wen	Environmental damage to the water course	6	Acceptable if reduced as reasonably practical	a) Double banded tank b) Monthly inspection c) Spillkits in position d) Spill team e) Stored internally
16	Paint Mixing Building Fire	Forseeable but unplanned	Emergency Response	4	Somewhat unlikely	3	Significant	Air / land or Air / Surface Water drains to the Afon Wen	Environmental damage to the water course	12	Acceptable if reduced as reasonably practical	a) Fire detection system b) Foam Sprinkler System c) Explosion designed roof d) Foam contained within the Building
17	Leakage from Paint Mixing Building	Forseeable but unplanned	Failure of containment	3	Unlikely	2	Noticeable	Surface water drains to the Afon Wen	Environmental damage to the water course	6	Acceptable if reduced as reasonably practical	a) Bunding with building b) Daily checks c) Spillkits in position d) Spill team
18	Vandalism	Forseeable but unplanned	Emergency Response	3	Unlikely	1	Minor	Surface water drains to the Afon Wen / Goch	Environmental damage to the water course	3	Acceptable	a) Perimeter fence and locked gate b) Internal Security Procedure c) All External stores locked

Notes :-  
a) Electronic Raw Materials Inventory in operation  
b) Waste Management Procedure in place  
c) All incidents logged on the SES Reporting System with corrective action requirements as well as a 5Why Investigation  
d) Shutdown Procedures for Mixing in operation  
e) Emergency Action Procedure and Site Major Incident Plan in operation  
f) Spillage procedures in operation  
g) Fire water run off to surface water to be prevented with Drain seal units and fixed envirovalve unit towards the Afon Wen .  
h) Fire water run off to surface water to be prevented with Drain seal units towards the Afon Goch - No hazards Raw Materials stored in this area

Frequency		Severity	
1	Highly unlikely	1	Minor
2	Very unlikely	2	Noticable
3	Unlikely	3	Significant
4	somewhat unlikely	4	Severe
5	Fairly Probable	5	Major