



Stage 1 As the nature of the work undertaken by the company is repetitive in nature and uses standard products the company has produced a range of standard generic risk assessments. The assessments fall into 3 categories;

GENERAL - All disciplines, **DISCIPLINE SPECIFIC & SPECIALISED** - All disciplines.

The RBL Contracts Manager has indicated below which are applicable to this contract.

Stage 2 Before the start of the contract a site visit is to be conducted during which an inspection must be made to detect any particular hazards pertaining to the site. Consideration shall be given to all activities conducted during the execution the company's works which may endanger RBL personnel or any other persons in the vicinity. Once identified the relevant statements shall be ticked and any identified hazards recorded along with required control measures as appropriate. The person conducting the risk assessment shall sign the form.

Stage 3 On receipt of the site risk assessments all operatives shall read and acknowledge as understanding the hazards and controls required to carry out the task safely by completing the signature block. Queries shall be directed to the preparer of the documents.

1 Risk Assessment Category	Risk Assessment Serial Number	Applicable (Tick)
GENERAL - All disciplines	GEN-RA 1001	☐
DISCIPLINE		
PILING - Bored (Minipiling as required)	GEN-RA 1008	☐
PILING - Driven (Minipiling as required)	GEN-RA 1007	☐
GROUND IMPROVEMENT - Vibro Stone Columns	GEN-RA 1005	☐
GROUND IMPROVEMENT - NRG Compaction	GEN-RA 1003	☐
GROUND IMPROVEMENT - Cone Handling	GEN-RA 1032	☐
HOUSE FOUNDATIONS(inc SystemFirst)	GEN-RA 1006	☐
UNDERPINNING & MINIPILING	GEN-RA 1009	☐
SPECIALISED - All disciplines	GEN-RA 1002	☐

2 SITE SPECIFIC RISK ASSESSMENT

Please tick which of the following statements apply:

No additional hazards on this site which have not been covered in the above documentation

☐

Additional hazards have been identified and have been detailed within the documents above

☐

3 I have prepared, briefed and issued the Risk Assessments, Method Statements & COSHH Assessments to RBL Site Foreman

Prepared by:

Signed: _____ Print: _____ Date: _____
RBL Engineer

I have been briefed, read and understand the hazards that are applicable to this project and confirm that I have been issued all the Safety Documentation associated to this project.

Signed: _____ Print: _____ Date: _____
RBL Site Foreman

Signed: _____ Print: _____ Date: _____
RBL Operative

Signed: _____ Print: _____ Date: _____
RBL Operative

Signed: _____ Print: _____ Date: _____
RBL Operative



Contract Name:	Havant BR	Contract No.	WP/19/0031
Assessed By:		Date:	
Activity/Process:	GENERAL - FOR ALL DISCIPLINES		
		RA Serial No.	GEN-RA 1001

Risk Assessment Matrix

Severity	Likelihood				
	1	2	3	4	5
	1	2	3	4	5
	2	4	6	8	10
	3	6	9	12	15
	4	8	12	16	20
5	10	15	20	25	

Likelihood Key

Score	Likelihood
1	Unlikely
2	May Happen
3	Likely
4	Very Likely
5	Certain

Severity Key

Score	Severity
1	Minor Injury (First Aid)
2	Minor Injury (Hospital Treatment)
3	Seven Day Injuries (Time Lost)
4	Major Injuries
5	Death

Risk Number	Associated Hazard	Person(s) Affected	Consequence	Risk Assessment			Control Measures	Residual Risk		
				L	S	R/R		L	S	R/R
1	Loading/Unloading machines & mobile plant	Site Personnel General Public	Crushing Impact Injuries Damage to property Death	4	5	20	• Only trained, competent, authorised personnel inc banksmen used • Trailer and ramps to be clean/dry free from oil/slippery substances • On public highway, create an exclusion zone to allow public safe passage • Wait for quite periods of traffic flow before loading • Use of warning signs and cones • Avoid loading/off loading plant adjacent to parked vehicles	1	5	5
2	Overhead services	Operators All Personnel in vicinity	Electrocution - serious Electrocution - possibly fatal	3	5	15	• Permit to work in operation • Compliance with GS6 - 'Avoidance of danger from overhead electric power lines' • Prevent machines going too close to overhead services • Use of demarcation methods e.g. Goal posts • Compliance with GEN-WID 1001 • Toolbox Talks and training	1	5	5

3	Underground services	Operators All Personnel in vicinity	Electrocution Explosion Death	3	5	15	• Permit to dig system in operation • Working area CAT scanned • Service plans examined • Safe digging practices employed • Compliance with HSG 47 'avoiding danger from underground services • Compliance with GEN-WID 1001 • Toolbox Talks and training	1	5	5
4	Overturning mobile plant	All personnel in vicinity	Impact Crushing	3	4	12	• Installation of a designed piling platform in accordance with CDM regs for tracked plant • Localised soft spots and excavation to be back filled in a controlled manner • Working area should be inspected to check suitability for plant • Work should cease if operator deems the conditions are unsafe	1	4	4
5	Manual Handling	Site Personnel	Sprains Strains Cuts Crushing Musculoskeletal Disorders Trapping Repetitive Strain Injuries Head Injuries	3	3	9	• Use of mechanical handling equipment - FLT • Use of handling aids - Trolleys • Job rotation or varying working patterns • Specific training to be given to all employees in manual handling • Regular toolbox talks • Manual Handling Risk Assessment	1	3	3
6	Head Injury	Site Personnel	Head Injuries	2	4	8	• Head protection to be worn on all RBL sites • Only trained machine operators to be used • PPE training as required	1	4	4
7	Hand/finger Injuries	Site Personnel	Impact Crushing Abrasions	3	2	6	• Suitable protective gloves worn on all sites • Training & Toolbox Talks to reinforce PPE • Activities carried out in accordance with current Method Statements	1	2	3
8	Foot Injuries	Site Personnel	Impact Crushing Entrapment	3	3	9	• Suitable protective footwear to be worn at all times on all RBL sites. • Training and toolbox talks to reinforce PPE.	1	3	3
9	Noise	Site Personnel General Public	Hearing Impairment (long & short term)	3	2	6	• RBL provide information and training and make hearing protection available (LEAV 80 dB) • RBL take reasonably practicable measures to reduce noise exposure (UEAV 85 dB) • Personnel not exposed to ELV 87 Db or 137 Db peak • All personnel must use hearing protection provided • Machinery serviced regularly and noise assessed	1	2	2
10	Refuelling	All operatives	Dermatitis Eye Contamination Skin Cancer	3	3	9	• Appropriate PPE to be worn inc Fuel resistant gloves, coveralls and glasses • Supervisor to ensure correct PPE is utilised • Training in the dangers of hazardous materials & Toolbox Talks	1	3	3

11	Unloading/loading & transport of material	All personnel in vicinity	Impact Crushing	2	4	8	- Restricted access to area during unloading process - Ensure SWL for machine/attachment is not exceeded - Travel at speeds suitable for the ground conditions - The fork extensions are to be used where applicable - The FLT tines are to be in a lowered position when moving around site, this includes moving materials - If using a crane a full lift plan must be in place	1	4	4
12	Placement of cem caps on rebar & setting out pins	Operatives Site Personnel General Public	Impalement Lacerations	3	4	12	- All Rebar must be protected by placing CEMCAPS onto protruding ends - Ensure correct size of CEMCAP is used appropriate to Rebar - Regular checks carried out to replace missing caps - Sufficient supply of CEMCAPS is maintained at site - Trained, competent, authorised personnel to operate forklift/excavator - Forks kept at maximum distance - Use internal site roads - Restricted access to area during unloading process - Monitoring of ground conditions to check for collapse of stored materials especially in inclement weather - Stacked material at safe & vertical height utilising wooded dunnage/chocks - The FLT tines are to be in a lowered position when moving around site, this includes moving materials - Ground must be suitable to withstand the weight of materials to be stored	1	4	4
13	Moving material into position & local storage	Pedestrians All personnel in vicinity	Crushing Impact Multiple Injuries Death	3	5	15	- Trained, competent, authorised personnel to operate forklift/excavator - Forks kept at maximum distance - Use internal site roads - Restricted access to area during unloading process - Monitoring of ground conditions to check for collapse of stored materials especially in inclement weather - Stacked material at safe & vertical height utilising wooded dunnage/chocks - The FLT tines are to be in a lowered position when moving around site, this includes moving materials - Ground must be suitable to withstand the weight of materials to be stored	1	5	5
14	Use of Vibrating Hand Held Tools	Site personnel	HAVS disruption of blood flow to fingers Damage to nerve endings Numbness Whitening Loss of dexterity VWF (Vibration White Finger)	3	4	12	- Consider using Excavator mounted equipment if suitable for the task - Use hand held tools with low vibration levels - Rotate employees work schedule to reduce exposure time - Compliance with Control of Vibration at Work Regs 2005 - Vibration limits checked and set in accordance with equipment - Use specific to Exposure action value (EAV) and exposure limit value (ELV)	1	4	4
15	Unloading by use of slinging	Slinger/signaller All personnel in vicinity	Multiple injuries Serious injuries Death	4	4	16	- Only trained and competent Slingers used - Correct slinging techniques & equipment used - Equipment and accessories checks to be carried out in accordance with LOLER	1	4	4

16	Abrasive Wheels	Operator All personnel in vicinity	Lacerations Respiratory Problems Dermatitis Eye Injury Noise Induced Hearing Loss	3	4	12	• Trained, competent, authorised personnel to use equipment • Working guards fitted to equipment • Suitable and serviceable PPE to be used - Safety Goggles BS EN 166 with suitable impact rating for task - Gloves - Face Fit Mask • Use of water suppression as required • Good ventilation and vacuum • Correct discs suitable for the task & spindle speed • Correct storage of wheels & inspect before use • Working area clean and free from debris • Vibration limits to be checked and set in accordance with equipment use specific to Exposure Action Value (EAV) and Exposure Limit Value (ELV)	1	4	4
17	Manual Hand Held Tools	All personnel using hand tools	Contact Injury Eye Injury Cuts & Abrasions	3	3	9	• Instruction given in use of tool • Suitable and serviceable PPE to be used • Appropriate tool selection in a serviceable condition • Toolbox Talks and training • Compliance with Toolbox Talk 20	1	3	3
18	Vehicle Access & Egress	Site personnel Visitors Trespassers	Multiple Injuries Crushing Musculoskeletal Disorders Death Damage to Vehicles and Structures	3	5	15	• Traffic management plan to be put in place in accordance with CDM Regs • Maintain haul roads • Stick to site speed limits • Trained and competent operators/drivers • Maintain site security • Vehicles & pedestrian segregation	1	5	5
19	Wet Concrete Works	Site Personnel	Dermatitis Concrete Burns Eye Injury	3	3	9	• Toolbox Talks and training • Suitable welfare facilities for washing • Suitable, serviceable & clean PPE to be used - Glasses & Overalls • Regular skin checks for dermatitis	1	3	3
20	Operation of ride on Mobile Plant	All mobile plant	Back Pain Whole Body Vibration	4	2	8	• Regular machinery maintenance • Tyre pressure checks • Seat adjustment in accordance with manufacturers guidelines • Good maintenance of traffic routes • Instruction, Training and supervision • Vibration limits to be checked and set in accordance with equipment use specific to Exposure Action Value (EAV) and Exposure Limit Value (ELV)	1	2	2

21	General & Open Excavations inc Trenches	Site personnel All personnel in vicinity	Multiple Injuries Crushing Suffocation/Asphyxiation Fire Explosion Electrocution Drowning Death	4	5	20	• Permit to dig system in operation • Plant & materials to be kept away from side of excavations to prevent undue pressure or ingress of exhaust fumes • Shoring & edge protection measures to be put in place • Possible temporary works design for deep excavations • Suitable access/ egress arrangements must be available (ladders/ ramps) • Where a risk of water ingress is present suitable methods of prevention should be put in place (water pumps) • Inspections should be carried out prior to each shift or change in weather conditions • Gas monitoring • Suitable and serviceable PPE to be used • Compliance with GEN-SMS 1003	1	5	5
22	Removal of Manhole Covers For Inspection of Drains and Ducts	Site personnel	Back Strain Musculoskeletal Disorders Finger Trapping Human Infections - Leptospirosis Asphyxiation Poisoning	3	4	12	• Examination carried out without entering manhole • Use suitable equipment & tools for heavy lifting of covers • Suitable and serviceable PPE to be used - Gloves - Overalls • Maintain good hygiene to prevent contamination • No eating, drinking or smoking • Compliance with GEN-SMS 1001 & Toolbox Talk 49	1	4	4
23	Exclusion Zones for Piling Operations - reversing or manoeuvring rigs	All personnel in vicinity	Multiple injuries Crushing Death	2	5	10	• Rig Operators are trained to CPCS standards • Operators constantly vigilant and ware of other site workers • Exclusion zone of 6-11metres (dependent upon Rig model) surrounding all RBL Piling Rigs is to be enforced • Operator to cease operation immediately if exclusion zone is breached • Main contractor requested to provide a clearly marked barrier zone for rig operations • Site briefing and inductions carried out to reinforce • Compliance with GEN-WID 1047 - Rig Exclusion • In addition to the 6-11m exclusion zone there will also be a 5m exclusion zone around the right hand auger gate area at all times when concrete is being pumped.	1	5	5

24	Cutting/Heating with Bottled Gases	All personnel in vicinity Operatives	Eye Injuries Burns Heat Stress Property Damage Back Strain (manual handling) Death	3	5	15	- Remove flammable material from area before commencement of operation. - Only Qualified Operatives can use the equipment - Suitable and serviceable PPE to be used - Welders Gloves - Leather Apron plus FR/ARC clothing - Welders Goggles/Mask BS EN 166 B - LEV if in confined space - Use correct lifting techniques when handling cylinders - Use correct storage and security of cylinders	1	5	5
25	Collision with other contractors Plant and Personnel	All personnel in vicinity Site personnel Operatives	Impact Crushing Multiple Injuries Death	3	5	15	- Exclude non essential staff from the work area - All operators to be CPCs certified - Traffic routes should be established and adhered to - Constant vigilance by operators during operations - Trained, competent, authorised personnel to use equipment - Correct wheels/discs suitable for the task & spindle speed - Working guards fitted to equipment - Good ventilation and vacuum - Suitable and serviceable PPE to be used - Safety Glasses BS EN 166 with suitable impact rating for task - Gloves - Face Fit Mask - FR/ARC clothing &/or overalls - Correct storage of wheels & inspect before use - Vibration limits to be checked and set in accordance with equipment use specific to Exposure Action Value (EAV) and Exposure Limit Value (ELV)	1	5	5
26	Cutting/Grinding Materials (Portable Appliances) Associated Hazard - Burst wheel - Contact with Disc - Entanglement - Flying fragments - Dust - Noise - HAVS	Operatives All personnel in vicinity General Public	Lacerations Respiratory Problems Dermatitis Eye Injury Noise Induced Hearing Loss Death	3	5	15	- Trained, competent, authorised personnel to use equipment - Correct wheels/discs suitable for the task & spindle speed - Working guards fitted to equipment - Good ventilation and vacuum - Suitable and serviceable PPE to be used - Safety Glasses BS EN 166 with suitable impact rating for task - Gloves - Face Fit Mask - FR/ARC clothing &/or overalls - Correct storage of wheels & inspect before use - Vibration limits to be checked and set in accordance with equipment use specific to Exposure Action Value (EAV) and Exposure Limit Value (ELV)	1	5	5
27	Portable Electric Tools	Operatives Site personnel	Electrocution Fire Burns Death	3	5	15	- Use air operated hand tools where possible - Equipment fitted with industrial plugs to BS4343 with flexible leads - Power source should be 110v and centre tapped earth - Use of insulated tool - Surge protection (RCD) for 240v equipment - Maintained in accordance with manufacturers recommendations and legislative regulations	1	5	5

28	Driving Activities	All drivers Site Users Public	Death Multiple Injuries Serious Injuries	2	5	10	• Driver Licensed for Category of Vehicle • Periodic Driver Training Given • Periodic Licence Checks • Driver to Notify any Medical Conditions or Endorsements • Vehicle is in a Roadworthy Condition • Drivers handbook Issued • Topical Advice Issued Regularly • Management of driving & duty hours	1	5	5
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Contract Name:	Havant BR	Contract No.	WP/19/0031
Assessed By:		Date:	
Activity/Process:	SPECIALISED - ALL DISCIPLINES		
		RA Serial No.	GEN-RA-1002

Risk Assessment Matrix

Severity	Likelihood				
	1	2	3	4	5
	1	2	3	4	5
	2	4	6	8	10
	3	6	9	12	15
	4	8	12	16	20
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Likelihood Key

Score	Likelihood
1	Unlikely
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Severity Key

Score	Severity
1	Minor Injury (First Aid)
2	Minor Injury (Hospital Treatment)
3	Seven Day Injuries (Time Lost)
4	Major Injuries
5	Death

Risk Number	Associated Hazard	Person(s) Affected	Consequence	Risk Assessment			Control Measures			Residual Risk		
				L	S	R/R				L	S	R/R
1	Use of Mobile Elevated Work Platform (MEWP)	Site Personnel General Public	Crushing Impact Injuries Damage to property Death	4	5	20	• Only trained, competent, authorised personnel inc banksmen used • Area around base of MEWP to be cordoned off with cones or tape. • Full body safety harness with work restraint lanyard be worn and used by all persons in basket at all times. • Lanyard to be secured to basket anchor point only • Planned route to be Surveyed for suitability of ground conditions • MEWP to be transported between locations in the lowered position • Must not exceed safe working load. • Must not exceed carriage of persons limit • MEWP to be visually examined daily or prior to use and every 7 days. • All work on MEWP to be stopped when wind speed exceeds force 6 on Beaufort scale			1	5	5

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Contract Name:	Havant BR	Contract No.	WP/19/0031
Assessed By:		Date:	
Activity/Process:	PILING - DRIVEN PILING		
		RA Serial No.	GEN-RA 1007

Risk Assessment Matrix

Severity	Likelihood				
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Severity Key

Score	Severity
1	Minor Injury (First Aid)
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Risk Number	Associated Hazard	Person(s) Affected	Consequence	Risk Assessment			Control Measures	Residual Risk		
				L	S	R/R		L	S	R/R
1	Precast Concrete Piling - shattering of concrete pile	All Personnel in the vicinity	Impact Injuries Eye Injuries	2	3	6	• Visual inspection of the pile prior to driving • Suitable and serviceable PPE to be used - Safety Glasses BS EN 166 with B impact rating - Helmet - Gloves - Ear Protection - Fire resistant overalls • Constant monitoring of the integrity of the pile during driving should be observed • Restricted access to area during process	1	3	3
2	Pile kicking due to obstruction	Operatives	Crushing Impact Injuries	3	3	6	• Adequate Soil Investigation must be obtained and • Possible legacy of obstructions taken into account at the design stage • Foreseeable obstructions removed prior to commencement of Piling Operations • Operators keep away from immediate area around pile	1	3	3

3	Hammer Falling (Free Fall)	Operatives	Crushing Impact Injuries Death	2	5	10	• Regular Inspection of the Hoist Mechanism • Operatives trained and competent • Rope Changes carried out at frequent Intervals • Current up to date Annual Thorough Inspection Certificate and 6 Monthly Lifting Ancillaries Chain, Shackles etc must be in place • Piling Crew to be clear of immediate vicinity under working hammer	1	5	5
4	Manually Guiding piles into position for driving.	Operatives	Entrapment Impact Injuries Crushing Injuries Crushing Fingers Chain whip injuries	2	4	8	• Operatives trained and competent • Operatives to not enter exclusion zone until the head of the pile section is located in the piling helmet and the toe is lowered to just clear of the catchplate on the piling rig. • Extreme care should be taken to ensure the pile does not kick backwards during this procedure. • When manually guiding the pile section hands are to be kept a safe distance above the toe of the pile to prevent trapping when bringing pile joints together. • At no point during the operation should hands be placed on the lifting chain. • Once the pile section is unhooked the operative must retreat to a safe position before pile driving commences. • PGI-PMS 1307 & PGI-PMS 1301 must be complied with at all times	1	4	4
5	Taking Set - restraining pile - pile shattering	Operatives	Crushing Impact Injuries Eye Injuries	2	3	6	• Regular Inspection of the Hoist Mechanism • Operatives trained and competent • Rope Changes carried out at frequent Intervals • Hammer stopped prior to marking pile face for measuring set. Rig Operator to retreat a safe distance before re striking pile for required number of blows. • Hammer stopped before returning to measure depth of penetration. • To Prevent Accidental Operation of the Hammer, a safety switch is in place to ensure both hands are required to initiate operation of the hammer • Current up to date Annual Thorough Inspection Certificate and 6 Monthly Lifting Ancillaries Chain, Shackles etc must be in place	1	3	3

6	Movement of Precast Concrete Piles with Telescopic Handler - Danger of lateral and longitudinal instability due to insufficient all round operator visibility	Operatives All Personnel in the vicinity	Crushing Impact Injuries Puncture Injuries	2	4	8	• Select forklift truck with improved all round visibility • Use competent Banksman • Rear view camera, convex mirrors and telescopic handler with low boom profile does not replace the need to maintain good allround awareness • The FLT tines are to be in a lowered position when moving around site, this includes moving materials • Raising the boom to 20/30 degrees to improve operator visibility on offside of forklift is to prohibited • Method Statement relevant to the Piling operation or when lifting the Pile into the helmet • Before starting work the Piling Foreman should plan a sequence of work that will allow safe delivery of piles to the rig. • Pile sections should be presented horizontally to the rig by a forklift in a position as close to 180° as possible to the centreline of the body of the rig. • Whilst attaching the chain sling to the pile section and during the hoisting operation the piling hammer must be stopped. Hands should never be placed on the lifting chain whilst hoisting piles.	1	4	4
7	Concrete / Steel Piles hitting Site Operatives when being hoisted into the Pile Hammer using the Pile Winch	Operatives	Crushing Impact Injuries Entrapment Death Chain whip injuries	2	5	10	• Whilst hoisting a pile section into the rig a minimum exclusion zone of 1m away from the toe of the pile should be in operation. The pile section shall be hoisted into a near vertical position and the pile head located into the piling helmet. • Should any obstructions such as pre-installed piles prevent the safe hoisting of the pile section into the rig the pile section should be safely lowered to the ground, chains removed and re positioned using the forklift. • During the hoisting operation if the Pile contacts an obstruction or when lifting the Pile into the helmet causes the pile to overload the chain, the operative/Foreman must visually check the chain for signs of damage/stretching • Equipment and accessories checks to be carried out in accordance with LOLER	1	5	5

8	Exclusion Zones for Piling operations	Operatives and all personnel in the vicinity	Death Multiple Injuries Crushing	2	5	10	- Exclusion zone of 6-11m (dependent upon rig model surrounding all RBL piling rigs is to be enforced. - Operator to cease operation immediately if exclusion zone is breached. - Main Contractor requested to provide a clearly marked barrier zone for rig operations - Site briefing and inductions carried out to reinforce - Compliance with GEN-WID 1047 Rig Exclusion zones - Method Statement PGI-PMS 1007 Precast Concrete Piles - Collet & Spigot Joints in place. - Safety Glasses and Chemical Protective Gloves are to worn when handling the resin and resin pots. - Protective clothing must be worn to protect arms. - All waste from the use of resin is classed is classed as hazardous and must be disposed of correctly. - All waste resin pots must be double bagged and for disposal via a licenced waste disposal company. - Refer to COSHH Assessment prior to use.	1	5	5
9	Use Of Jointing Resin Fgor Spigot Piles	Operatives	Burns Irritation, skin and eye Sickness Toxic to aquatic life	2	2	4	- Exclusion zone of 6-11m (dependent upon rig model surrounding all RBL piling rigs is to be enforced. - Operator to cease operation immediately if exclusion zone is breached. - Main Contractor requested to provide a clearly marked barrier zone for rig operations - Site briefing and inductions carried out to reinforce - Compliance with GEN-WID 1047 Rig Exclusion zones - Method Statement PGI-PMS 1007 Precast Concrete Piles - Collet & Spigot Joints in place. - Safety Glasses and Chemical Protective Gloves are to worn when handling the resin and resin pots. - Protective clothing must be worn to protect arms. - All waste from the use of resin is classed is classed as hazardous and must be disposed of correctly. - All waste resin pots must be double bagged and for disposal via a licenced waste disposal company. - Refer to COSHH Assessment prior to use.	1	2	2