RISK ASSESSMENT – USING ECOGUM MAXI CHEWING GUM REMOVER MACHINE

STEP 1 – ASSESSMENT DETAILS & INTRODUCTION

Method Statement Reference:	CCRM-082	FREQUENCY (TICK AS APPROPRIATE)				
Issue Number	01	Daily	Weekly	Monthly	Quarterly	AD Hoc
Task:	Removing chewing gum with steam					
Date Completed:	20 January 2025	✓	✓	✓		
Employee consultation and involvement:	Jorge Garcia					
Re-Assessment Due*:	Two Years from above date					
Method Statement Completed By:	Health & Safety Manager	Emergency Telephone Number:				
		020 7624 6330 / 111 / 999				

STEP 2 – PERSONEL REQUIRED (DURING ACTIVITY)

Lone Worker	2 or More Persons	First Aider	Supervisor/Team Leader	Management
✓	✓		✓	

STEP 3 – PROCEDURES TO BE CARRIED OUT (BEFORE STARTING WORK)

Training and Knowledge Site Induction Form Phase 1 & 2	Company Manual Handling Training	Perform Visual Safety Check of Equipment and report any damage	Perform Visual Check of PPE and report any damage	Check and report any damage on the connection cable and on the power plug	Public Exclusion Cordon Area use warning signs if necessary	Ventilate Area if using internally	Test effectiveness of RCD Plug (Test / Reset) If Needed
✓	✓	✓	✓	✓	✓	✓	✓

STEP 4 – HAZARDS, PRODUCT AND PPE

Manual Handling	Fire	Slips, Trips & Falls	Electric Shock	Hot Liquid / Steam	Rubber Gloves	Goggles	Protective Clothing	Fume/Vapour Mask If poor ventilation
								
✓	✓	✓	✓	✓	✓	✓	✓	✓

STEP 5 –EQUIPMENT, HAND TOOLS & ATTACHMENTS

Equipment	Safety and integrity
Ecogum E Maxi 	• Visual safety check by site team before commencing– (Recorded) • PAT Tested • Reporting and Tagging Off in place • Using Machine -5˚ to +50˚ inside or outside • Switch off if it smells gas – other than when fitting or removing the canisters Visual inspection (Before / after operation) • Deformations • Leakage • Visual Damage • Loose components • Pre-Assembly anomalies • Reporting • Gas smell TECHNICAL INFORMATION

Power Supply:	15V 135 W
Detergent Capacity (L)	2
Vaporisation Chamber Capacity (ML)	10
Max Temperature (°C)	95
Weight (Kg)	9.5
Dimensions (WxDxH) - mm	250 x 300 x 550
LPG Gas Pressure Regulator - bar	1
Operating Output Pressure - bar	≤ 1

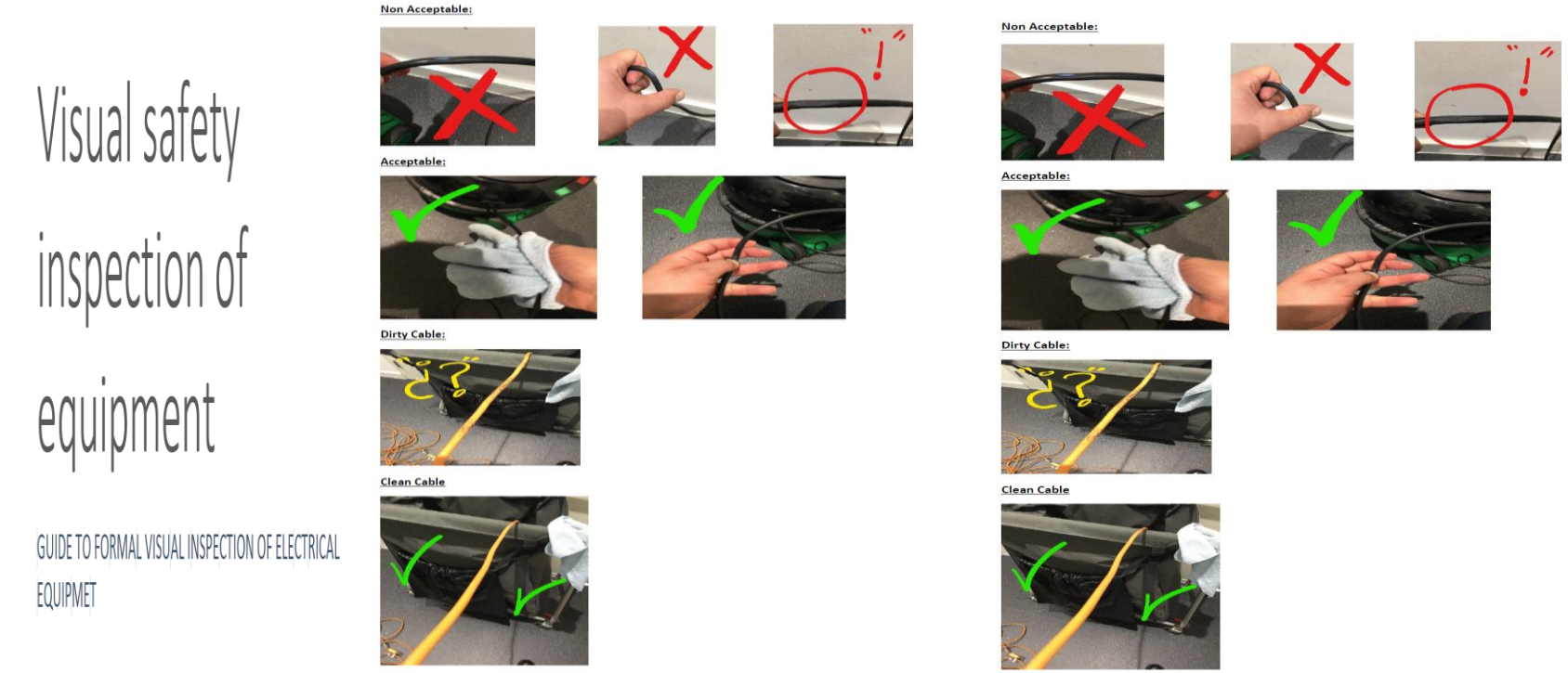
Tools and Attachments	Safety and integrity
Ecogum E Maxi Accesssories   	• Weekly Visual safety check by site management – (Recorded) Visual Inspected (Before / after operation) • Deformations • Visual Damage • Loose components • Pre-Assembly anomalies

STEP 5 – Visual Safety Inspection of Equipment

SAFETY - DO

1. Only authorized/trained operatives, trained in the procedure to carry out this task.
2. Always wear appropriate PPE and beware of the hot areas.

3. Place warning signs / Ring Fence in the work area before you commence the task.
4. Inspect Equipment for any faults. As shown on the Visual Safety Inspection of Equipment Guide



5. Ensure the machine are PAT Tested
6. Insert and run test on the Residual Current Divisive (RCD) – If Required
7. Ventilate the area and removed as much furniture as possible

8. When the red label on the lance shows black, meaning the exhaust is HOT. Be CAREFUL
9. Report machine damage or faulty operation immediately.

DON'T

1. Use the machine near people, children or animals
2. Point steam at the electrical apparatus.
3. Use the machine to clean the machine down

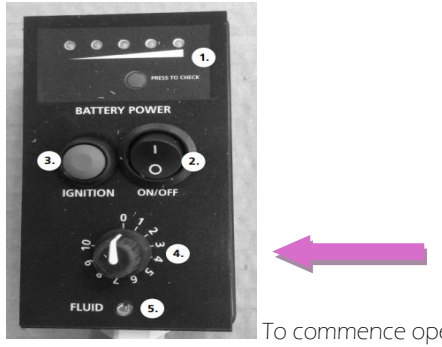
4. Leave the machine unattended

STEP 6– METHOD STATEMENT

CHARGING THE ECOGUM MAXI

1. Plug the charger into the charging port which seen below on the machine. The charger has a battery indicator that will flash GREEN while charging and show solid GREEN when fully charged. If the charger flashing RED, STOP using it and contact with head office.
2. Before operation, ensure the battery has been fully charged and disconnected from the charger.
3. A full charge will take approx.. 4 hours. After this time remove the charger from the machine and the machine is ready for use.
4. Store the battery charger in a cool dry place when not in use and protect from the elements.

OPERATING INSTRUCTIONS

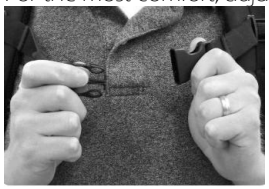
1. Transport equipment safely to area of work
2. All work MUST be completed and safe working practices followed at all times as detailed in the individual (training documents) and (manuals) given at the time of this document's acknowledgement.
3. Always ensure the ecogum maxi has been fully charged BEFORE each use. Failure to fully charge the unit will result in a shortened working day.
4. Plan work route and area temporary remove items that may obstruct you to a new, safe location.
5. Keep the unit upright at all times when operating, and keep the lance held in an upright position always. Allow a distance of 0 cm from contact with the exhaust.
6. Always switch of the unit when not in use.
7. DO NOT put the lance down until 3 minutes after use or when it has cooled down.
8. NEVER disconnect the lance or tamper with the lance, especially when switched on.
9. ALWAYS remove the brush when it is cold.
10. DO NOT start the machine until strapped on to the operators back.
11. ALWAYS remove the handheld controller when the machine is NOT IN USE.
12. 

To commence operation make sure that the fluid controller is set to 0

GAS CANISTERS

1.  Check that the manifold valves are turned off before inserting or removing the cartridges
2. Always turn the manifold valves off afer use.
3. ONLY use the unit with two canisters connected.
4. The unit should be SWITCHED OFF immediately if you smell gas.

ADJUSTING THE MACHINE

1.  Unclip waist and chest straps. Loosen shoulder straps and hip belt.
2. For the most comfort, adjust the unit so that the hip belt covers the front hipbones and bowed-out portion of the back padding rests on the small of the back.
3.  tighten the shoulder straps to the point where the unit's weight just starts to pull down on the shoulders. Ideally, most of the unit's weight will remain on the waist.

13. Wait for the steam to begin with flowing (will take 5-10 seconds).
14. DON'T FORGET to complete a test patch on surfaces to make sure no damage occurs to the flooring or surface.

END OF USE

15. Display warning signs
16. When completed, turn off the machine to OFF - 0 with dry hands,
17. Place the machine on a level even surface
18. Remove the lid and turn the gas valves off by turning clockwise, unscrew the detergent bottle and remove from the unit.
19. To drain the unit, on the handheld controller turn "on" 1, turn the fluid control dial to 10 until there is no fluid coming from the nozzle at the end of the lance.
20. When you finished draining, turn the power "off" 0 and un plug the handheld controller.
21. Collect all accessories.
22. Store the cleaned equipment safely and tidily in the correct storage area.
23. Return any items moved to their original positions.
24. Remove PPE and wash hands.
25. Clean goggles with general detergent

STEAM CLEANER INJURY

In the event of injury caused by steam the following steps should be taken:

1. Ensure that the machine is switched off and is not causing an obstruction or hazard whilst seeking medical attention.
2. IMMERSE THE INJURED AREA IN COLD WATER OR HOLD UNDER COLD WATER FOR AT LEAST 10 MINS. CAREFULLY REMOVE ANY CLOTHING OR JEWELLERY FROM THE INJURED AREA, UNLESS STUCK TO THE INJURY.
3. Seek medical attention first Aider or go straight to A&E Department.
4. Complete company F037-Accident Report Form

STEP 7 – RISK ASSESSMENT (Frequency X Severity = Risk)

AREA	HAZARD	POTENTIAL HARM	Frequency	Severity	Risk Before c Controls	Risk After Controls	CONTROL MEASURES
Slips, Trips & Falls	Slips, trips & falls	Broken bones/bruises/cuts	3	3	9	3	Competent operative and supervision Good housekeeping Operatives instructed in the correct use of machinery and warning signs Watch out for trailing cables Intruction and information provided
Usage / Operation	Hot surfaces / Steam due to leakage or fracture in heating chamber of the machine	Burns / Scalding / Trauma	3	4	12	4	Disconnect the machine form the mains before cleaning or connecting attachments Do not use the machine to clean the machine down Do not point gun towards people Do not point gun towards equipment containg electrical componenets Intruction and information Provided Public exclusion zone in place during operation Stainles steel heating chamber Self- thermo regulators Low level float sensor as to stop heating if the water tank has low water/ chemical supply. Operatives not allowed to repair or dismount the machinery Visual checks before comencing the task

Manual Handling	Heavy objects/bending Poor lifting technique/ Poor planning and execution of lift	Back injuries, Muscular – Skeletal injuries e.g. muscle strains, sprains, (WRULD)	3	3	9	3	All operatives are taught the four universal principles (LITE) which when applied to every manual handling situation that can reduce the risk of injury. 1. Load 2. Individual 3. Task 4. Environment Only use required level of water to carry out the job Intruction and information Provided
Electric Shock	Electric shock due to electrical insulation failure or protection accorded to the exterior of the appliance	Electrocution/burns/death	2	5	10	5	Staff training Weekly H&S inspection by site management Electrical equipment visulally inspected before starting task, Equipment is PAT tested All parts of the machine are grounded to earthing points within the machine Stainless steel casing and handle Isolated from the floor by rubber wheels Machine will be connected to mains supply when on charge and operatives not allowed to use during charging Waterproof membranes for the switches on the machine
Usage/Operation	Direct contact of chemicals to eyes	May cause serious eye damage	2	4	8	4	Induction training provided Proper PPE provided and operatives acknowledged Compenent supervison Only authorised and trained operatives are allowed to use the machinery
Usage / Operation	Use of non-specified cleaners or incorrect dilution	May cause burns, steam leakage due to damage the heating chamber	2	4	8	4	Induction training provided Compenent supervison Only authorised and trained operatives are allowed to use the machinery Visual checks before comencing the task

Charging of the Batteries	Releasing dangerous gases during charging (H2 gas)	Fire, explosion	2	5	10	5	Opertaives are not allowed to to smoke in charging areas Charging in well ventilated areas Low amount of batteries being charged at the same time Not allowed to charge until full as this can cause more gas producing which can increase the possibility of explosion Operatives not allowed to charge close to combustible materials
Charging of batteries	Metal contact during charging (ring, watch etc.)	Electrocution, electric schock, burns	2	5	10	5	Induction training provided Compenent supervison Only authorised and trained operatives are allowed to use the machinery

OVERALL RISK RATING BEFORE CONTROLS: 9.5	Very Low	Low	Medium	High	COMMENTS
			✓		
OVERALL RISK RATING AFTER CONTROLS: 5.5	Very Low	Low	Medium	High	
		✓			

LIKELIHOOD
1. IMPROBABLE OCCURRENCE
2. REMOTED OCCURRENCE
3. REASONABLY PROBABLE OCCURRENCE
4. VERY LIKELY OCCURRENCE
5. ALMOST CERTAIN OCCURRENCE

SEVERITY
1. SLIGHT: NO INJURY or Injury requiring first Aid treatment
2. MINOR: INJURY requiring medical treatment with absence from 3 days to 3 weeks
3. MODERATE: Injury illnes resulting in temporary disibility (eg. fractures) and absence over 3 weeks
4. SERIOUS: Severe injury or permanent disibility (e.g loss of limb, sight) property and equipment damage
5. MAJOR: Immidiate danger exist, capable of causing death, loss or damage on a wide scale and serious business disruption (e.g. Explosion, fire, structural damage, etc.)

INTERPRETATION
4 and below very Low risk = No further action, but ensure controls are maintained an review

5 to 8 Low risk = Risk Can be tolerated or for only short term. Plan introduction of meassures with a define time period

9 to 15 Medium Risk = Planned and introduce further control measures to mitigate the risk within a time scale

16 and Above = Stop activity and immediate action

RISK MATRIX		SEVERITY				
		Major 5	Serious 4	Moderate 3	Minor 2	Slight 1
LIKELIHOOD	Almost Certain 5	25	20	15	10	5

	Very Likely 4	20	16	12	8	4
	Reasonable Probable 3	15	12	9	6	3
	Remoted 2	10	8	6	4	2
	Improbable 1	5	4	3	2	1