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| **Safety Task Card** |
| **CLN 16** | **Use of hydrogen Peroxide decontamination system** |
| **Workplace Safety Hazards** |
| What are the hazards? | How might they be harmed? |
| Electrical hazardsAccidental spillage of Hydrogen Peroxide solutionInhalation of Hydrogen Peroxide vapourMovement of equipment  | Electric shockSlips, trips and fallsBack and muscle strainsChemical burns Respiratory tract damageAsphyxiation |
| **Safe System of Work** |
| * H2O2 only to be handled by trained staff over 18 years of age following full training to include process and procedures include risks at each stage of operation including emergency procedures.
* Training to be completed by qualified personal provided by the manufacturer.

Respiratory protection for use in event of spillage ONLY - Full face respirator / EN 136/140 filter * Gauntlet gloves, PVC apron and wellington boots – for use ONLY in spillage of 2PPM -10PPM Spillages – Area must be blocked to prevent access. Refer to spill plan for clear up guidance.
* Gloves and googles to be worn at all times the bottles are being handled. Attention to be observed that some droplets may be present on the ‘empty’ container; any small spillage should be wiped with a damp cloth and rinsed well straight away. The empty container needs to be triple rinsed and disposed of according to local regulations.
* Spillages must be cleared up with absorbent matting or spillage snake MAKE sure the absorbent material is then soaked to remove the H2O2 as left on the combustible material can cause it to ignite.
* Only hydrogen Peroxide sterilant suitable for the machine in use so the RFID identification tag can be read by machine. Bottles must not be left unattended at any time.
* Trolley to be set up according to operation manual (dependant on fixed or foldable trolley in use)
* to prevent possible damage and contamination. Equipment to be moved only once disconnected from the power supply.
* If the machine is to be moved with residue H2o2 the plunger must be fully engaged to lock down the bottle. If bottles need to be removed replace yellow screw caps prior to storing. Residue can be disposed of by diluting H2O2 at a ratio of 1:20 with water down sink. Follow the light indicators for the levels within the bottle – for each cycle there must be minimum to manufactures guidelines.
* The machines weigh approx. 22kg with each aeration unit weighing 11kg. The aeration units can be stacked for transportation and secured using the black rubber straps provided, where possible these should be moved by two people. Aeration units MUST not be operated in stacked position but separated and distributed in the area being decontaminated- due to trailing wires ensure all operators setting up show extra caution across these areas.
* Assessment for extra assistance in the event of slopes and uneven surfaces must be completed prior to movement of the appliance.

Prior to operation of machine all vents and access points to area being treated must be sealed to prevent leakage. In event of leak or liquid or vapour emergency evacuation procedure must be implemented.**DURING A CYCLE**- Do not enter the area being bio-decontaminated. Personnel must be prevented from entering the area during operation until concentration is at a safe level.- A suitable portable H2O2 detector should be used throughout the cycle to monitor concentrations outside the area, the area being decontaminated should be checked on completion or in event of a shutdown prior to operators entering the area. Level must not exceed 1ppm or 2ppm for short term exposure- if detector is reading higher immediately vacate area until levels have reduced to safe occupational exposure limits (OEL). Appropriate signage to be placed to ensure unnecessary personal in the area DO NOT enter the area being decontaminated. **FIRST AID PROVISION TO BE AVAILABLE ON THE TROLLEY** In the event of skin or eye contact, immediately flush with water for 10 minutes and seek medical help. In event of inhalation remove injured person to fresh air and obtain medical assistance immediately. Contact with skin drench with water and remove contaminated clothing. If consumed rinse with plenty of water – in all cases seek immediate medical attention* Machine guard removal and maintenance to only be carried out by qualified engineers.
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| **Site Specific Actions**List any actions required in addition to the above safe system of work |
| Machine used at site:Chemicals used at site: |
| The above control measures are implemented within my unit. All relevant staff are aware of these control measures and this is recorded in the training record for this safety task card. |
| Unit Manager Name | Signed | Date |

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| **Safety Card Training Record** |
| **CLN 16** | **Use of hydrogen Peroxide decontamination system** |
| I confirm that I fully understand the risks and control measures associated with the taskand that I will follow the Safe System of Work at all times.  |
| Operative Name | Signature | Date |
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