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| ***Portable_Plant_SOP***  **CONCRETE MIXER** | |
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| **DO NOT** use this machine unless a teacher has instructed you in its safe use and operation and has given permission | |
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| Safety glasses must be worn at all times in work areas. | Hearing Protection circleAppropriate hearing protection (*Class 5-SLC80>26 dB*) must be worn. |
| Foot Protection circleAppropriate protective footwear with substantial uppers must be worn. | Wear close fitting protective clothing, overalls, leather gloves, etc. |
| Prohibition circle**Prohibition circle**Prohibition circleRings and jewellery must not be worn. | **Dust mask sign**A mask *should* be worn when excessive airborne dusts or fumes are created. |

### **NEVER allow arms or hands into the mixer bowl while in operation**

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### **PRE-OPERATIONAL SAFETY CHECKS**

1. **Ensure the mixer is in a suitable, safe work area and select a firm, level and stable ground surface.**
2. **Confirm the mixer has a current electrical safety tag.**
3. **Ensure that the power lead can be kept dry, off the ground and connected through an RCD safety switch.**
4. **Ensure all safety guards are correctly fitted and secured.**
5. **Ensure that the unit is mechanically sound.**
6. **Check the tyres for appropriate inflation.**

#### OPERATIONAL SAFETY CHECKS

1. **Never use the electrical mixer outdoors in the rain.**
2. **Never use the mixer without all guarding in place.**
3. **Ensure that the area does not contain any hazards that may impact on the safe operation of the mixer.**
4. **Never insert your hands into a rotating mixer bowl.**
5. **Be conscious of your manual handling techniques when adding cement powder, gravel or sand to the mixer bowl using a shovel or similar.**
6. **Regularly inspect the mixer bowl for consistency and suitability for the concrete mix.**
7. **Never leave the mixer running unattended.**

#### HOUSEKEEPING

1. **Empty the mixer drum of all contents.**
2. **While still wet, wash out with clean water.**
3. **Allow the mixer to revolve to wash the interior and carefully clean off the exterior.**
4. **Disconnect the electrical AC power source.**
5. **Clean up the work area.**
6. **Return the mixer to a secured storage area.**

## POTENTIAL HAZARDS

* + **Moving, rotating parts ◼ Entrapment ◼ Eye injuries**
  + **Skin irritation from cement or additives ◼ Manual handling ◼ Electricity**

**Date of last review:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_