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| ***Portable_Plant_SOP***  **GRANULATOR** | |
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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. | Hand Protection circleProtective cotton gloves must be worn when using the hot plastics. |
| Foot Protection circleAppropriate protective footwear with substantial uppers must be worn. | **Hair Protection circle**Long or loose hair must be tied back and contained. |
| Prohibition circle**Prohibition circle**Prohibition circleRings and jewellery must not be worn. |  |

### **DO NOT use faulty equipment – report this immediately to your teacher**

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

1. **Familiarise yourself with the granulator operations and controls.**
2. **Never attempt to shed/granulate materials other than plastics. However, thermosetting plastics can only be heated and moulded once and are not commonly recycled.**
3. **Identify the recyclable plastics materials suitable for thermoforming i.e. use only thermoplastics such as acrylic, polypropylene and HDPE (such as milk bottles, etc.)**
4. **Faulty or damaged equipment must not be used. Immediately report this to your teacher.**

#### OPERATIONAL SAFETY CHECKS

1. **Make all adjustments to the granulator before turning it on.**
2. **Feed the material gradually and carefully. Never use force to load the feed hopper.**
3. **Beware of ejected material from the feed hopper.**
4. **Eye protection is absolutely mandatory as minimum PPE before operating this machine.**
5. **Wear appropriate hearing protection as required against excessive noise.**
6. **Never attempt to remove any material that may have become jammed in the top feed hopper, grinding mechanism, or lower collection tray. Always turn the machine off at the wall first.**

#### HOUSEKEEPING

1. **Turn the granulator unit off and unplug after use.**
2. **Always leave the machine in a safe, clean and tidy condition. Clean the lower collection tray.**
3. **Inspect all externally fixed guarding for condition and functionality.**
4. **Inspect and clean the shedding blades (by the teacher, only as required).**

## POTENTIAL HAZARDS

* + **Entanglement in moving, rotating parts ◼ Sharp cutting blades**
  + **Eye injuries from ejected material ◼ Pinch and squash**
  + **Plastic vapours and fumes ◼ 240v Electricity**

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