RACI Chemical Education Group Queensland Branch

CRYSTAL GROWING COMPETITION
RISK ASSESSMENT
Assessment Date: 24/06/2014

Overall Risk Level: Low
Action: Risk is acceptable

Risk Situation #1: Using hot water - risk of burns
Process description: Water is heated.
Energy Source: Thermal
Current Controls: Do not touch heating equipment with unprotected hands unless you are certain that it is at room temperature. General care and awareness is required to prevent accidental contact with hot surfaces or hot water.
Hazard Event: Contact with a hot surface or hot water causing a burn.
Incident Category: Contact or exposure to heat and cold

Risk Analysis
Consequence: Minor
Rationale: A minor burn requiring first aid would result.
Exposure: Unusual
Rationale: The Competition is performed once per year.
Probability: Unusual but possible
Rationale: Contact with a hot surface would be unusual with general care and awareness.
Risk Level: Low
Action: Risk is acceptable

Risk Situation #2: Handling glassware - cut or injury from broken
Process description: A beaker is used which has the potential to break if handled incorrectly. It is possible minor cuts or injuries could occur if there is contact with broken glassware.
Energy Source: Kinetic Energy
Current Controls: Care should be taken when placing glassware on hard bench tops. Care should be taken when selecting glassware from drawers where items may have been accidentally broken. Check glassware for chips or cracks and if found the item must not be used. Good general awareness and safe working procedures eliminate most hazards of working with glassware.
Hazard Event: Contact with broken or sharp glass causing a cut or injury.
Incident Category: Hitting objects with a part of body
Australian National Crystal Growing Competition

**Risk Analysis**

Consequence: Minor  
Rationale: A minor cut requiring first aid would result.

Exposure: Unusual  
Rationale: The Competition is performed once per year.

Probability: Unusual but possible  
Rationale: Contact with a broken glass would be unusual with general care and awareness.

**Risk Level:** Low  
**Action:** Risk is acceptable

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**Risk Situation #3:** Exposure to Aluminium Potassium Sulphate Dodecahydrate

**Process description:**  
Aluminium potassium sulphate dodecahydrate is dissolved in hot water, filtered and allowed to stand.

**Energy Source:** Chemical

**Current Controls:** The appropriate personal protective equipment must be worn.

**Hazard Event:** Contact with aluminium potassium sulphate dodecahydrate.

**Incident Category:** Single contact with chemical

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**Risk Analysis**

Consequence: Minor  
Rationale: Would require first aid if contact occurred.

Exposure: Unusual  
Rationale: The Competition is performed once per year.

Probability: Unusual but possible  
Rationale: Contact would be unusual with general care and awareness.

**Risk Level:** Low  
**Action:** Risk is acceptable

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If you require further information, please contact

RACI Queensland Branch Chemical Education Group

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