### Health Risks
- **MAY CAUSE ILL HEALTH IF INGESTED IN QUANTITY**
- **SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT**
- Do not breathe in vapour
- When using do not eat, drink or smoke
- Avoid contact with skin and eyes

### Spillage
- **VENTILATE AREA**
- **DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEWERS/WATER COURSES**
- **WEAR NITRILE GLOVES**
- **WEAR EYE PROTECTION IF SPLASH LIKELY**
- **WEAR PROTECTIVE CLOTHING IF WHOLE CONTAINER IS SPILT**
- **ABSORB IN SAND OR INERT ABSORBENT MATERIAL**
- **COLLECT INTO A CONTAINER, CLOSE LID**
- **DISPOSE OF USING SUITABLE PROCEDURE OR SEEK L.A. GUIDANCE**

### First Aid
- **INHALATION - REMOVE TO FRESH AIR AND REST**
- **AFTER A SIGNIFICANT EXPOSURE CALL FOR MEDICAL ASSISTANCE IMMEDIATELY**
- **INGESTION - DO NOT INDUCE VOMITING**
- **INGESTION - GIVE PLENTY OF WATER IN SIPS**
- **IF FEELING UNWELL CONSULT YOUR DOCTOR IMMEDIATELY**
- **SKIN - WASH WITH SOAP/CLEANSER AND RINSE WITH WATER**
- **IF IRRITATION PERSISTS THEN CONSULT A DOCTOR**

### Fire
- **ISOLATED SMALL SCALE FIRE:**
  - **USE EXTINGUISHERS SUITABLE FOR OTHER MATERIALS INVOLVED IN FIRE**
  - **LARGE FIRE: EVACUATE AREA, CALL FIRE BRIGADE OR FOLLOW SITE PROCEDURE**
  - **WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING**
  - **TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE**

### Control Measures
- **KEEP SKIN COVERED**
- **IF CONTACT LIKELY**
- **IF SPLASH LIKELY**
- **WASH AFTER CONTACT**
- **IF HEAVILY SOILED**
- **EATING OR DRINKING**
- **WASH DRAIN**
- **CHARGING**

### Considerations

### Safety Data Sheet Reference
- **23/06/2011**
  - This assessment was compiled by Sypol Limited from supplier's safety data sheets. Safety in the use of assessments is the responsibility of the subscriber.
Material/Process: 1,2-Propanediol 60-100%, Urea 10-30%, 1,2-Propanediol 474mg/m³ Vap8hTWA 10mg/m³ Part8hTWA WEL, LOW HAZARD LIQUID

Safety Data Sheet Reference: 23/06/2011
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Health Risks
MAY CAUSE ILL HEALTH IF INGESTED IN QUANTITY
MAY CAUSE EYE IRRITATION
SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT
Do not breathe in vapour
When using do not eat, drink or smoke
Avoid contact with skin and eyes

Spillage
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DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEwers/WATER COURSES
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WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING
TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE

Control Measures
KEEP SKIN COVERED
IF CONTACT LIKELY
IF SPLASH LIKELY
NO SMOKING
WASH AFTER CONTACT
IF HEAVILY SOILED

Considerations
Details

Risk Assessment
Method: Spraying (Automated)
Area: Outside
Exposure Time: 1/2 to 2 hours per shift

Activity Comments

Supplier
Rawdon Road
Moiram Swadlincote
Derbyshire
DE12 6DA
01283221044

Date
20/12/2011

Address

Keyword
De-Icer

Exp Limit
1,2-Propanediol 474mg/m³ Vap8hTWA 10mg/m³ Part8hTWA WEL,
### Health Risks

**MAY CAUSE ILL HEALTH IF INGESTED IN QUANTITY**

- **SKIN** - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT.
- Do not breathe in vapour.
- When using do not eat, drink or smoke.
- Avoid contact with skin and eyes.

### Spillage

**VENTILATE AREA**

- DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEWERS/WATER COURSES.
- WEAR NITRILE GLOVES.
- WEAR EYE PROTECTION IF SPLASH LIKELY.
- WEAR PROTECTIVE CLOTHING IF WHOLE CONTAINER IS SPILT.
- COLLECT INTO A CONTAINER, CLOSE LID.
- DISPOSE OF USING SUITABLE PROCEDURE OR SEEK L.A. GUIDANCE.

### First Aid

**INHALATION** - REMOVE TO FRESH AIR AND REST.

- AFTER A SIGNIFICANT EXPOSURE CALL FOR MEDICAL ASSISTANCE IMMEDIATELY.
- INGESTION - DO NOT INDUCE VOMITING.
- INGESTION - GIVE PLENTY OF WATER IN SIPS.
- IF FEELING UNWELL CONSULT YOUR DOCTOR IMMEDIATELY.
- SKIN - WASH WITH SOAP/CLEANSER AND RINSE WITH WATER.
- IF IRRITATION PERSISTS THEN CONSULT A DOCTOR.

### Fire

**ISOLATED SMALL SCALE FIRE:**

- USE EXTINGUISHERS SUITABLE FOR OTHER MATERIALS INVOLVED IN FIRE.
- LARGE FIRE: EVACUATE AREA, CALL FIRE BRIGADE OR FOLLOW SITE PROCEDURE.
- WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
- TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE.

### Control Measures

- **KEEP SKIN COVERED**
- **IF CONTACT LIKELY**
- **IF SPLASH LIKELY**
- **NO SMOKING**
- **WASH AFTER CONTACT**
- **IF HEAVILY SOILED**

### Safety Data Sheet Reference

23/06/2011

This assessment was compiled by Sypol Limited from supplier's safety data sheets. Safety in the use of assessments is the responsibility of the subscriber.

Printed 20/12/2011
<table>
<thead>
<tr>
<th>Material/Process</th>
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<td>ARROW CLEANING &amp; HYGIENE SOL.</td>
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<td>Address</td>
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### Health Risks
- May cause ill health if ingested in quantity
- May cause eye irritation
- Skin - irritation and dermatitis may result from prolonged contact
- Do not breathe in vapour
- When using do not eat, drink or smoke
- Avoid contact with skin and eyes

### Spillage
- Ventilate area
- Do not allow uncontrolled spillages to enter mains drain/sewers/water courses
- Wear nitrile gloves
- Wear eye protection if splash likely
- Wear protective clothing if whole container is spilt
- Absorb in sand or inert absorbent material
- Collect into a container, close lid
- Dispose of using suitable procedure or seek L.A. guidance

### First Aid
- Inhalation - remove to fresh air and rest
- After a significant exposure call for medical assistance immediately
- Ingestion - do not induce vomiting
- Ingestion - give plenty of water in sips
- If feeling unwell consult your doctor immediately
- Skin - wash with soap/cleanser and rinse with water
- If irritation persists then consult a doctor

### Fire
- Isolated small scale fire:
  - Use extinguishers suitable for other materials involved in fire
  - Large fire: evacuate area, call fire brigade or follow site procedure
- Wear self-contained breathing apparatus and protective clothing
- Toxic fumes are produced when substance is involved in a fire

### Safety Data Sheet Reference
- 23/06/2011

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**Material/Process**: DE-ICER 97/633/1  
**Supplier**: ARROW CLEANING & HYGIENE SOL.

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**Risk Assessment**

- **Method**: Pouring
- **Area**: Outside
- **Exposure Time**: Up to 1/2 hour per shift

**Control Measures**

- **KEEP SKIN COVERED**
- **PROTECT HANDS**
- **IF SPLASH LIKELY**
- **PROTECT EYES**
- **VENTILATION**
- **NO SMOKING**
- **WASH AFTER CONTACT**

**First Aid**

- INHALATION - REMOVE TO FRESH AIR AND REST
- AFTER A SIGNIFICANT EXPOSURE CALL FOR MEDICAL ASSISTANCE IMMEDIATELY
- INGESTION - DO NOT INDUCE VOMITING
- INGESTION - GIVE PLENTY OF WATER IN SIPS
- IF FEELING UNWELL CONSULT YOUR DOCTOR IMMEDIATELY
- EYE - IRRIGATE WITH WATER FOR AT LEAST 15 MINUTES
- SKIN - WASH WITH SOAP/CLEANSER AND RINSE WITH WATER
- IF IRRITATION PERSISTS THEN CONSULT A DOCTOR

**Safety Data Sheet Reference**

- **Date**: 23/06/2011
- **Details**: This assessment was compiled by Sypol Limited from supplier's safety data sheets. Safety in the use of assessments is the responsibility of the subscriber.
### Material/Process
- **DE-ICER 97/633/1**
- **ARROW CLEANING & HYGIENE SOL.**

### Address
- **Rawdon Road**
- **Moiram Swadlincote**
- **Derbyshire**
- **DE12 6DA**
- **01283221044**

### Health Risks
- **MAY CAUSE ILL HEALTH IF INGESTED IN QUANTITY**
- **MAY CAUSE EYE IRRITATION**
- **SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT**
- Do not breathe in vapour
- When using do not eat, drink or smoke
- Avoid contact with skin and eyes

### Spillage
- **VENTILATE AREA**
- **DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEwers/WATER COURSES**
- **WEAR NITRILE GLOVES**
- **WEAR EYE PROTECTION IF SPLASH LIKELY**
- **WEAR PROTECTIVE CLOTHING IF WHOLE CONTAINER IS SPILT**
- **ABSORB IN SAND OR INERT ABSORBENT MATERIAL**
- **COLLECT INTO A CONTAINER, CLOSE LID**
- **DISPOSE OF USING SUITABLE PROCEDURE OR SEEK L.A. GUIDANCE**

### First Aid
- **INHALATION - REMOVE TO FRESH AIR AND REST**
- **AFTER A SIGNIFICANT EXPOSURE CALL FOR MEDICAL ASSISTANCE IMMEDIATELY**
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- **IF IRRITATION PERSISTS THEN CONSULT A DOCTOR**

### Fire
- **ISOLATED SMALL SCALE FIRE:**
- **USE EXTINGUISHERS SUITABLE FOR OTHER MATERIALS INVOLVED IN FIRE**
- **LARGE FIRE: EVACUATE AREA, CALL FIRE BRIGADE OR FOLLOW SITE PROCEDURE**
- **WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING**
- **TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE**

### Considerations

### Safety Data Sheet Reference
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**Material/Process**  DE-ICER 97/633/1

**Supplier**  ARROW CLEANING & HYGIENE SOL.

**Address**
Rawdon Road
Moiram Swadlincote
Derbyshire
DE12 6DA
01283221044

---

**Keyword**  De-Icer

**Date**  20/12/2011

**Contents**
1,2-Propanediol 60-100%, Urea 10-30%,

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**Exp Limit**
7

**Exposure Time:**
Area:
Pouring
Outside
2 to 4 hours per shift

---

**Control Measures**

**Spillage**
VENTILATE AREA
DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEWERS/WATER COURSES
WEAR NITRILE GLOVES
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TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE

---

**Risk Assessment**
Method: Pouring
Area: Outside
Exposed Time: 2 to 4 hours per shift

---

**Health Risks**
MAY CAUSE ILL HEALTH IF INGESTED IN QUANTITY
MAY CAUSE EYE IRRITATION
SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT
Do not breathe in vapour
When using do not eat, drink or smoke
Avoid contact with skin and eyes

---

**First Aid**
INHALATION - REMOVE TO FRESH AIR AND REST
AFTER A SIGNIFICANT EXPOSURE CALL FOR MEDICAL ASSISTANCE IMMEDIATELY
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EYE - IRRIGATE WITH WATER FOR AT LEAST 15 MINUTES
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IF IRRITATION PERSISTS THEN CONSULT A DOCTOR

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**Considerations**

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**Health Risks**

- MAY CAUSE ILL HEALTH IF INGESTED IN QUANTITY
- MAY CAUSE EYE IRRITATION
- SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT

- Do not breathe in vapour
- When using do not eat, drink or smoke
- Avoid contact with skin and eyes

**Spillage**

- VENTILATE AREA
- DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEWER/WATER COURSES
- WEAR NITRILE GLOVES
- WEAR EYE PROTECTION IF SPLASH LIKELY
- WEAR PROTECTIVE CLOTHING IF WHOLE CONTAINER IS SPILT
- ABSORB IN SAND OR INERT ABSORBENT MATERIAL
- COLLECT INTO A CONTAINER, CLOSE LID
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**First Aid**

- INHALATION - REMOVE TO FRESH AIR AND REST
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- IF IRRITATION PERSISTS THEN CONSULT A DOCTOR

**Fire**

- ISOLATED SMALL SCALE FIRE:
  - USE EXTINGUISHERS SUITABLE FOR OTHER MATERIALS INVOLVED IN FIRE
- LARGE FIRE: EVACUATE AREA, CALL FIRE BRIGADE OR FOLLOW SITE PROCEDURE
- WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING
- TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE

**Risk Assessment**

- Method: Pouring
- Area: Outside
- Exposure Time: 4 to 8 hours per shift

**Control Measures**

- KEEP SKIN COVERED
- PROTECT HANDS
- IF SPLASH LIKELY
- NATURAL VENTILATION
- NO SMOKING
- EATING OR DRINKING
- WASH AFTER CONTACT

**Considerations**

**Safety Data Sheet Reference**

- 23/06/2011

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