

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%,

LOW HAZARD
LIQUID
Exp Limit
 1,2-Propanediol 474mg/m3
 Vap8hTWA 10mg/m3
 Part8hTWA WEL,

Hazards






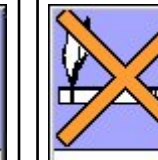



Health Risks
 MAY CAUSE ILL HEALTH IF INGESTED IN QUANTITY
 MAY CAUSE EYE IRRITATION
 SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT
 Do not breathe in vapour
 When using do not eat, drink or smoke
 Avoid contact with skin and eyes

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

Activity Comments

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

Control Measures

 COVER SKIN KEEP SKIN COVERED	 PROTECT HANDS IF CONTACT LIKELY	 BS:EN166 EYE PROTECTION IF SPLASH LIKELY	 NO SMOKING EATING OR DRINKING	 WASH BASIN WASH AFTER CONTACT	 CHANGING IF HEAVILY SOILED
 DISPOSAL					

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

Considerations

Details

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

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Health Risks
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 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

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

Activity Comments

Spillage
 VENTILATE AREA
 DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEWERS/WATER COURSES
 WEAR NITRILE GLOVES
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Control Measures

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First Aid
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Fire
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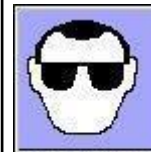

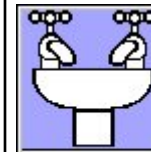

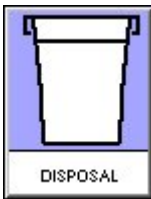
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 MAY CAUSE EYE IRRITATION
 SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT
 Do not breathe in vapour
 When using do not eat, drink or smoke
 Avoid contact with skin and eyes

Risk Assessment 3
Method: Spraying (Automated)
Area: Outside
Exposure Time: 2 to 4 hours per shift

Activity Comments

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
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Control Measures

 COVER SKIN KEEP SKIN COVERED	 PROTECT HANDS IF CONTACT LIKELY	 BS:EN166 EYE PROTECTION IF SPLASH LIKELY	 NO SMOKING EATING OR DRINKING	 WASH BASIN WASH AFTER CONTACT	 CHANGING IF HEAVILY SOILED
 DISPOSAL					

First Aid
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 IF IRRITATION PERSISTS THEN CONSULT A DOCTOR

Considerations

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Fire
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 USE EXTINGUISHERS SUITABLE FOR OTHER MATERIALS INVOLVED IN FIRE
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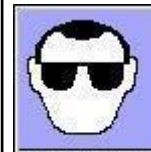

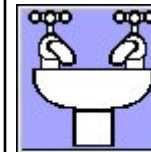

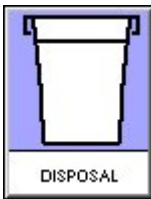
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 MAY CAUSE EYE IRRITATION
 SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT
 Do not breathe in vapour
 When using do not eat, drink or smoke
 Avoid contact with skin and eyes

Risk Assessment 4
Method: Spraying (Automated)
Area: Outside
Exposure Time: 4 to 8 hours per shift

Activity Comments

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
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Control Measures

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 DISPOSAL					

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
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 EYE - IRRIGATE WITH WATER FOR AT LEAST 15 MINUTES
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 IF IRRITATION PERSISTS THEN CONSULT A DOCTOR

Considerations

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Fire
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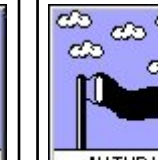
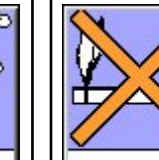
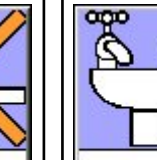

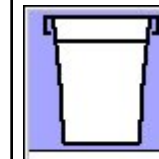
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 MAY CAUSE EYE IRRITATION
 SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT
 Do not breathe in vapour
 When using do not eat, drink or smoke
 Avoid contact with skin and eyes

Risk Assessment 5
Method: Pouring
Area: Outside
Exposure Time: Up to 1/2 hour per shift

Activity Comments

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
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Control Measures

 COVER SKIN KEEP SKIN COVERED	 PROTECT HANDS NITRILE	 BS:EN166 EYE PROTECTION IF SPLASH LIKELY	 NATURAL VENTILATION	 NO SMOKING EATING OR DRINKING	 WASH BASIN WASH AFTER CONTACT
 CHANGING IF HEAVILY SOILED	 DISPOSAL				

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
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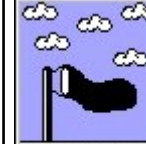



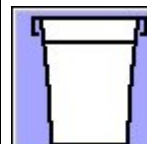
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 MAY CAUSE EYE IRRITATION
 SKIN - IRRITATION AND DERMATITIS MAY RESULT FROM PROLONGED CONTACT
 Do not breathe in vapour
 When using do not eat, drink or smoke
 Avoid contact with skin and eyes

Risk Assessment 6
Method: Pouring
Area: Outside
Exposure Time: 1/2 to 2 hours per shift

Activity Comments

Spillage
 VENTILATE AREA
 DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEWERS/WATER COURSES
 WEAR NITRILE GLOVES
 WEAR EYE PROTECTION IF SPLASH LIKELY
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 ABSORB IN SAND OR INERT ABSORBENT MATERIAL
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Control Measures

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 CHANGING IF HEAVILY SOILED	 DISPOSAL				

First Aid
 INHALATION - REMOVE TO FRESH AIR AND REST
 AFTER A SIGNIFICANT EXPOSURE CALL FOR MEDICAL ASSISTANCE IMMEDIATELY
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Fire
 ISOLATED SMALL SCALE FIRE:
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 LARGE FIRE: EVACUATE AREA, CALL FIRE BRIGADE OR FOLLOW SITE PROCEDURE
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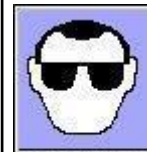


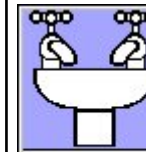

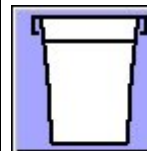
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Risk Assessment 7
Method: Pouring
Area: Outside
Exposure Time: 2 to 4 hours per shift

Activity Comments

Spillage
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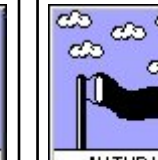
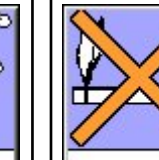
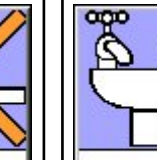

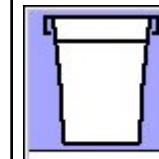
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Risk Assessment 8
Method: Pouring
Area: Outside
Exposure Time: 4 to 8 hours per shift

Activity Comments

Spillage
 VENTILATE AREA
 DO NOT ALLOW UNCONTROLLED SPILLAGES TO ENTER MAINS DRAIN/SEWERS/WATER COURSES
 WEAR NITRILE GLOVES
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 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

Control Measures

 COVER SKIN KEEP SKIN COVERED	 PROTECT HANDS NITRILE	 BS:EN166 EYE PROTECTION IF SPLASH LIKELY	 NATURAL VENTILATION	 NO SMOKING EATING OR DRINKING	 WASH BASIN WASH AFTER CONTACT
 CHANGING IF HEAVILY SOILED	 DISPOSAL				

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

Considerations

Details

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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Printed 20/12/2011