



|  <b>Material Safety Data Sheet</b><br>May be used to comply with OSHA's Hazard Communication Standard. 29 CFR 1910.1200 Standard must be consulted for specific requirements. |  |   |                     |
|--|--|---|---------------------|
| IDENTITY (As Used on Label and List)<br><b>A/284 Chloroplast Extraction Buffer</b>   |  |   |                     |
| Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.  |  |   |                     |
| <b>Section I</b>   |  |   |                     |
| Manufacturer's Name<br><b>EDVOTEK, Inc.</b><br>Address (Number, Street, City, State, Zip Code)<br><b>14676 Rothgeb Drive<br/>           Rockville, MD 20850</b>  | Emergency Telephone Number (301) 251-5990<br>Telephone Number for information (301) 251-5990<br>Date Prepared 06/15/07<br>Signature of Preparer (optional) |   |                     |
| <b>Section II - Hazardous Ingredients/Identify Information</b>   |  |   |                     |
| Hazardous Components [Specific Chemical Identity; Common Name(s)] OSHA PEL ACGIH TLV Other Limits Recommended % (Optional)<br><b>CAS # 50-70-4</b><br>This product contains no hazardous components  |  |   |                     |
| <b>Section III - Physical/Chemical Characteristics</b>   |  |   |                     |
| Boiling Point  | No data  | Specific Gravity (H <sub>2</sub> O = 1) | No data             |
| Vapor Pressure (mm Hg.)  | No data  | Melting Point                           | N/A                 |
| Vapor Density (AIR = 1)  | No data  | Evaporation Rate (Butyl Acetate = 1)    | No data             |
| Solubility in Water  | Soluble  |   |                     |
| Appearance and Odor  | Clear solution, no odor  |   |                     |
| <b>Section IV - Physical/Chemical Characteristics</b>  |  |   |                     |
| Flash Point (Method Used)  | Flammable Limits   | LEL                                     | UEL                 |
| Extinguishing Media  | Water spray, CO <sub>2</sub> , Dry chemical powder or appropriate foam   |   |                     |
| Special Fire Fighting Procedures   | Wear SCBA and protective clothing to prevent contact with skin and eyes  |   |                     |
| Unusual Fire and Explosion Hazards   | Emits toxic fumes under fire conditions.   |   |                     |
| <b>Section V - Reactivity Data</b>   |  |   |                     |
| Stability  | Unstable   |   | Conditions to Avoid |
|  | Stable   | X                                       |                     |
| Incompatibility  | Strong oxidizing agents, strong acids, aluminum, steel   |   |                     |
| Hazardous Decomposition or Byproducts  | Toxic fumes of: CO, CO <sub>2</sub> , phosphorous oxides   |   |                     |
| Hazardous Polymerization   | May Occur  |   | Conditions to Avoid |
|  | Will Not Occur   | X                                       |                     |
| <b>Section VI - Health Hazard Data</b>   |  |   |                     |
| Route(s) of Entry:   | Inhalation?  | Skin?                                   | Ingestion?          |
|  | Yes  | Yes                                     | Yes                 |
| Health Hazards (Acute and Chronic)   | May cause irritation   |   |                     |
| Carcinogenicity:   | NTP?   | IARC Monographs?                        | OSHA Regulation?    |
|  | No Data  |   |                     |
| Signs and Symptoms of Exposure   | Irritation   |   |                     |
| Medical Conditions Generally Aggravated by Exposure  | No data  |   |                     |
| Emergency First Aid Procedures   | Eye/skin contact: flush with water    Inhalation: move to fresh air<br>Ingestion: rinse mouth with water   |   |                     |
| <b>Section VII - Precautions for Safe Handling and Use</b>   |  |   |                     |
| Steps to be Taken in case Material is Released for Spilled   | Mop up with absorbent material and dispose of properly   |   |                     |
| Waste Disposal Method  | Mix with combustible solvent and burn in chemical incinerator equipped with afterburner and scrubber. Follow federal, state, and local regulations.        |   |                     |
| Precautions to be Taken in Handling and Storing  | Wear protective equipment to avoid contact   |   |                     |
| Other Precautions  | None   |   |                     |
| <b>Section VIII - Control Measures</b>   |  |   |                     |
| Respiratory Protection (Specify Type)  | NIOSH/MSHA approved respirator   |   |                     |
| Ventilation  | Local Exhaust  | No                                      | Special No          |
|  | Mechanical (General)   | Yes                                     | Other None          |
| Protective Gloves  | Rubber   | Eye Protection                          | Safety goggles      |
| Other Protective Clothing or Equipment   | Safety shower/eye bath   |   |                     |
| Work/Hygienic Practices  | Avoid contact  |   |                     |

|  <b>Material Safety Data Sheet</b><br>May be used to comply with OSHA's Hazard Communication Standard. 29 CFR 1910.1200 Standard must be consulted for specific requirements. |  |   |                     |
|---|--|---|---------------------|
| IDENTITY (As Used on Label and List)<br><b>B/284 Chloroplast Dilution Buffer</b>  |  |   |                     |
| Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.   |  |   |                     |
| <b>Section I</b>  |  |   |                     |
| Manufacturer's Name<br><b>EDVOTEK, Inc.</b><br>Address (Number, Street, City, State, Zip Code)<br><b>14676 Rothgeb Drive<br/>           Rockville, MD 20850</b>   | Emergency Telephone Number (301) 251-5990<br>Telephone Number for information (301) 251-5990<br>Date Prepared 06/15/07<br>Signature of Preparer (optional) |   |                     |
| <b>Section II - Hazardous Ingredients/Identify Information</b>  |  |   |                     |
| Hazardous Components [Specific Chemical Identity; Common Name(s)] OSHA PEL ACGIH TLV Other Limits Recommended % (Optional)<br><b>CAS # 50-70-4</b><br>This product contains no hazardous components   |  |   |                     |
| <b>Section III - Physical/Chemical Characteristics</b>  |  |   |                     |
| Boiling Point   | No data  | Specific Gravity (H <sub>2</sub> O = 1) | No data             |
| Vapor Pressure (mm Hg.)   | No data  | Melting Point                           | N/A                 |
| Vapor Density (AIR = 1)   | No data  | Evaporation Rate (Butyl Acetate = 1)    | No data             |
| Solubility in Water   | Soluble  |   |                     |
| Appearance and Odor   | Clear solution, no odor  |   |                     |
| <b>Section IV - Physical/Chemical Characteristics</b>   |  |   |                     |
| Flash Point (Method Used)   | Flammable Limits   | LEL                                     | UEL                 |
| Extinguishing Media   | Water spray, CO <sub>2</sub> , Dry chemical powder or appropriate foam   |   |                     |
| Special Fire Fighting Procedures  | Wear SCBA and protective clothing to prevent contact with skin and eyes  |   |                     |
| Unusual Fire and Explosion Hazards  | Emits toxic fumes under fire conditions.   |   |                     |
| <b>Section V - Reactivity Data</b>  |  |   |                     |
| Stability   | Unstable   |   | Conditions to Avoid |
|   | Stable   | X                                       |                     |
| Incompatibility   | Strong oxidizing agents, strong acids, aluminum, steel   |   |                     |
| Hazardous Decomposition or Byproducts   | Toxic fumes of: CO, CO <sub>2</sub> , phosphorous oxides   |   |                     |
| Hazardous Polymerization  | May Occur  |   | Conditions to Avoid |
|   | Will Not Occur   | X                                       |                     |
| <b>Section VI - Health Hazard Data</b>  |  |   |                     |
| Route(s) of Entry:  | Inhalation?  | Skin?                                   | Ingestion?          |
|   | Yes  | Yes                                     | Yes                 |
| Health Hazards (Acute and Chronic)  | May cause irritation   |   |                     |
| Carcinogenicity:  | NTP?   | IARC Monographs?                        | OSHA Regulation?    |
|   | No Data  |   |                     |
| Signs and Symptoms of Exposure  | Irritation   |   |                     |
| Medical Conditions Generally Aggravated by Exposure   | No data  |   |                     |
| Emergency First Aid Procedures  | Eye/skin contact: flush with water    Inhalation: move to fresh air<br>Ingestion: rinse mouth with water   |   |                     |
| <b>Section VII - Precautions for Safe Handling and Use</b>  |  |   |                     |
| Steps to be Taken in case Material is Released for Spilled  | Mop up with absorbent material and dispose of properly   |   |                     |
| Waste Disposal Method   | Mix with combustible solvent and burn in chemical incinerator equipped with afterburner and scrubber. Follow federal, state, and local regulations.        |   |                     |
| Precautions to be Taken in Handling and Storing   | Wear protective equipment to avoid contact   |   |                     |
| Other Precautions   | None   |   |                     |
| <b>Section VIII - Control Measures</b>  |  |   |                     |
| Respiratory Protection (Specify Type)   | NIOSH/MSHA approved respirator   |   |                     |
| Ventilation   | Local Exhaust  | No                                      | Special No          |
|   | Mechanical (General)   | Yes                                     | Other None          |
| Protective Gloves   | Rubber   | Eye Protection                          | Safety goggles      |
| Other Protective Clothing or Equipment  | Safety shower/eye bath   |   |                     |
| Work/Hygienic Practices   | Avoid contact  |   |                     |



**Material Safety Data Sheet**  
May be used to comply with OSHA's Hazard Communication Standard. 29 CFR 1910.1200 Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)  
F/284 Chromatography Solvent

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

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|---|---|
| <b>Section I</b>  |   |
| Manufacturer's Name<br><b>EDVOTEK, Inc.</b>   | Emergency Telephone Number<br><b>(301) 251-5990</b>       |
| Address (Number, Street, City, State, Zip Code)<br><b>14676 Rothgeb Drive<br/>Rockville, MD 20850</b> | Telephone Number for information<br><b>(301) 251-5990</b> |
|   | Date Prepared<br>06/15/07                                 |
|   | Signature of Preparer (optional)                          |

|   |          |           |                          |              |
|---|----------|-----------|--------------------------|--------------|
| <b>Section II - Hazardous Ingredients/Identify Information</b>    |          |           |                          |              |
| Hazardous Components [Specific Chemical Identity; Common Name(s)] | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (Optional) |
| Isopropanol CAS # 67-63-0   |          |           |                          |              |
| Ethanol CAS# 64-17-5  |          |           |                          |              |

|  |                                   |   |         |
|--|-----------------------------------|---|---------|
| <b>Section III - Physical/Chemical Characteristics</b> |                                   |   |         |
| Boiling Point  | No data                           | Specific Gravity (H <sub>2</sub> O = 1) | No data |
| Vapor Pressure (mm Hg.)                                | No data                           | Melting Point                           | N/A     |
| Vapor Density (AIR = 1)                                | No data                           | Evaporation Rate (Butyl Acetate = 1)    | No data |
| Solubility in Water                                    | Soluble                           |   |         |
| Appearance and Odor                                    | Clear liquid, characteristic odor |   |         |

|   |  |     |     |
|---|--|-----|-----|
| <b>Section IV - Physical/Chemical Characteristics</b> |  |     |     |
| Flash Point (Method Used)                             | Flammable Limits   | LEL | UEL |
| Extinguishing Media                                   | Water spray, CO <sub>2</sub> , alcohol foam, water spray to cool fire-exposed containers   |     |     |
| Special Fire Fighting Procedures                      | Wear SCBA and protective clothing to prevent contact with skin and eyes  |     |     |
| Unusual Fire and Explosion Hazards                    | Dangerous. Vapors can travel to ignition source and flash back. Hot vapors or mist susceptible to sudden spontaneous combustion when mixed with air. |     |     |

|                                       |  |                     |  |
|---------------------------------------|--|---------------------|--|
| <b>Section V - Reactivity Data</b>    |  |                     |  |
| Stability                             | Unstable   | Conditions to Avoid |  |
|                                       | Stable   | Heat                |  |
| Incompatibility                       | Acids, oxidizers, aluminum, alkali metals, acetyl chloride, acid chlorides, acid anhydride reducing agent. |                     |  |
| Hazardous Decomposition or Byproducts | CO, CO <sub>2</sub>  |                     |  |
| Hazardous Polymerization              | May Occur  | Conditions to Avoid |  |
|                                       | Will Not Occur   | X                   |  |

|   |   |                  |                  |
|---|---|------------------|------------------|
| <b>Section VI - Health Hazard Data</b>              |   |                  |                  |
| Route(s) of Entry:                                  | Inhalation?   | Skin?            | Ingestion?       |
|   | Yes   | Yes              | Yes              |
| Health Hazards (Acute and Chronic)                  | May cause irritation  |                  |                  |
| Carcinogenicity:                                    | NTP?  | IARC Monographs? | OSHA Regulation? |
|   | No  | No               | No               |
| Signs and Symptoms of Exposure                      | Inhalation/ingestion: Nausea, intoxication, CNS depression, headache Eye/skin: irritation                                     |                  |                  |
| Medical Conditions Generally Aggravated by Exposure | respiratory and skin conditions   |                  |                  |
| Emergency First Aid Procedures                      | Get medical assistance. Skin/eyes: flush with water. Inhalation: move to fresh air Ingestion: Drink water and induce vomiting |                  |                  |

|  |   |
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| <b>Section VII - Precautions for Safe Handling and Use</b> |   |
| Steps to be Taken in case Material is Released for Spilled | Mop up spill with absorbent material and dispose of properly  |
| Waste Disposal Method                                      | Follow federal, state and local regulations.                  |
| Precautions to be Taken in Handling and Storing            | Store in a cool area away from ignition sources and oxidizers |
| Other Precautions  | Do not breathe vapors. Avoid eye and skin contact.            |

|  |                                       |                |                    |
|--|---------------------------------------|----------------|--------------------|
| <b>Section VIII - Control Measures</b> |                                       |                |                    |
| Respiratory Protection (Specify Type)  | NIOSH/MSHA approved respirator        |                |                    |
| Ventilation                            | Local Exhaust                         | Special        | Approved fume hood |
|  | No                                    |                |                    |
|  | Mechanical (General)                  | Other          | None               |
|  | No                                    |                |                    |
| Protective Gloves                      | Butyl rubber, PVC or equivalent       | Eye Protection | Safety goggles     |
| Other Protective Clothing or Equipment | None                                  |                |                    |
| Work/Hygienic Practices                | Avoid inhalation and eye/skin contact |                |                    |



**Material Safety Data Sheet**  
May be used to comply with OSHA's Hazard Communication Standard. 29 CFR 1910.1200 Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)  
DPIP 2,6-dichlorophenol-indophenol

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

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| <b>Section I</b>  |   |
| Manufacturer's Name<br><b>EDVOTEK, Inc.</b>   | Emergency Telephone Number<br><b>(301) 251-5990</b>       |
| Address (Number, Street, City, State, Zip Code)<br><b>14676 Rothgeb Drive<br/>Rockville, MD 20850</b> | Telephone Number for information<br><b>(301) 251-5990</b> |
|   | Date Prepared<br>06/15/07                                 |
|   | Signature of Preparer (optional)                          |

|   |          |           |                          |              |
|---|----------|-----------|--------------------------|--------------|
| <b>Section II - Hazardous Ingredients/Identify Information</b>    |          |           |                          |              |
| Hazardous Components [Specific Chemical Identity; Common Name(s)] | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (Optional) |
| CAS # 620-45-1  |          |           |                          |              |

|  |                        |   |         |
|--|------------------------|---|---------|
| <b>Section III - Physical/Chemical Characteristics</b> |                        |   |         |
| Boiling Point  | No data                | Specific Gravity (H <sub>2</sub> O = 1) | No data |
| Vapor Pressure (mm Hg.)                                | No data                | Melting Point                           | N/A     |
| Vapor Density (AIR = 1)                                | No data                | Evaporation Rate (Butyl Acetate = 1)    | No data |
| Solubility in Water                                    | Soluble                |   |         |
| Appearance and Odor                                    | Blue solution, no odor |   |         |

|   |   |     |     |
|---|---|-----|-----|
| <b>Section IV - Physical/Chemical Characteristics</b> |   |     |     |
| Flash Point (Method Used)                             | Flammable Limits  | LEL | UEL |
| Extinguishing Media                                   | Water spray, CO <sub>2</sub> , Dry chemical powder or appropriate foam  |     |     |
| Special Fire Fighting Procedures                      | Wear SCBA and protective clothing to prevent contact with skin and eyes |     |     |
| Unusual Fire and Explosion Hazards                    | Emits toxic fumes under fire conditions.                                |     |     |

|                                       |  |                     |  |
|---------------------------------------|--|---------------------|--|
| <b>Section V - Reactivity Data</b>    |  |                     |  |
| Stability                             | Unstable   | Conditions to Avoid |  |
|                                       | Stable   | See incompatibles   |  |
| Incompatibility                       | Strong oxidizing agents  |                     |  |
| Hazardous Decomposition or Byproducts | Toxic fumes of Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, nitrogen oxides |                     |  |
| Hazardous Polymerization              | May Occur  | Conditions to Avoid |  |
|                                       | Will Not Occur   | X                   |  |

|   |  |                  |                  |
|---|--|------------------|------------------|
| <b>Section VI - Health Hazard Data</b>              |  |                  |                  |
| Route(s) of Entry:                                  | Inhalation?  | Skin?            | Ingestion?       |
|   | Yes  | Yes              | Yes              |
| Health Hazards (Acute and Chronic)                  | May cause irritation   |                  |                  |
| Carcinogenicity:                                    | NTP?   | IARC Monographs? | OSHA Regulation? |
|   | No data available  |                  |                  |
| Signs and Symptoms of Exposure                      | Irritation   |                  |                  |
| Medical Conditions Generally Aggravated by Exposure | No data  |                  |                  |
| Emergency First Aid Procedures                      | Eye/skin contact: flush with water Inhalation: move to fresh air Ingestion: rinse mouth with water |                  |                  |

|  |  |
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| <b>Section VII - Precautions for Safe Handling and Use</b> |  |
| Steps to be Taken in case Material is Released for Spilled | Wear protective equipment and mop up with absorbent material. Dispose of Properly  |
| Waste Disposal Method                                      | Mix with combustible solvent and burn in a chemical incinerator equipped with afterburner and scrubber. Observe all federal, state, and local regulations. |
| Precautions to be Taken in Handling and Storing            | Avoid contact  |
| Other Precautions  | None   |

|  |                                |                |                |
|--|--------------------------------|----------------|----------------|
| <b>Section VIII - Control Measures</b> |                                |                |                |
| Respiratory Protection (Specify Type)  | NIOSH/MSHA approved respirator |                |                |
| Ventilation                            | Local Exhaust                  | Special        | No             |
|  | No                             |                |                |
|  | Mechanical (General)           | Other          | None           |
|  | Yes                            |                |                |
| Protective Gloves                      | Chemical resistant             | Eye Protection | Safety goggles |
| Other Protective Clothing or Equipment | None                           |                |                |
| Work/Hygienic Practices                | Avoid contact                  |                |                |



**Material Safety Data Sheet**  
 May be used to comply with OSHA's Hazard Communication Standard. 29 CFR 1910.1200 Standard must be consulted for specific requirements.

|  |  |
|--|--|
| <b>IDENTITY (As Used on Label and List)</b><br><b>Sarkosyl</b> | <small>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</small> |
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|---|---|
| <b>Section I</b>  |   |
| Manufacturer's Name<br><b>EDVOTEK, Inc.</b><br>Address (Number, Street, City, State, Zip Code)<br><b>14676 Rothgeb Drive<br/>         Rockville, MD 20850</b> | Emergency Telephone Number<br><b>(301) 251-5990</b>       |
|   | Telephone Number for information<br><b>(301) 251-5990</b> |
|   | Date Prepared<br>06/15/07                                 |
|   | Signature of Preparer (optional)                          |

|  |                         |                          |   |                             |
|--|-------------------------|--------------------------|---|-----------------------------|
| <b>Section II - Hazardous Ingredients/Identify Information</b>                   |                         |                          |   |                             |
| <small>Hazardous Components [Specific Chemical Identity; Common Name(s)]</small> | <small>OSHA PEL</small> | <small>ACGIH TLV</small> | <small>Other Limits Recommended</small> | <small>% (Optional)</small> |
| N-lauroylsarcosine sodium  | No data                 | No data                  | No data                                 | No data                     |
| Sarcosine, N-dodecyl-, sodium salt   |                         |                          |   |                             |
| CAS# 7631-98-3   |                         |                          |   |                             |

|  |         |   |         |
|--|---------|---|---------|
| <b>Section III - Physical/Chemical Characteristics</b> |         |   |         |
| Boiling Point  | No data | Specific Gravity (H <sub>2</sub> O = 1) | No data |
| Vapor Pressure (mm Hg.)                                | No data | Melting Point                           | No data |
| Vapor Density (AIR = 1)                                | No data | Evaporation Rate (Butyl Acetate = 1)    | No data |
| Solubility in Water Soluble                            |         |   |         |
| Appearance and Odor Clear liquid, no odor              |         |   |         |

|  |         |                  |                   |
|--|---------|------------------|-------------------|
| <b>Section IV - Physical/Chemical Characteristics</b>  |         |                  |                   |
| Flash Point (Method Used)  | No data | Flammable Limits | LEL N.D. UEL N.D. |
| Extinguishing Media Water spray, carbon dioxide, dry chemical powder, or appropriate foam                    |         |                  |                   |
| Special Fire Fighting Procedures<br>Wear SCBA and protective clothing to prevent contact with skin and eyes. |         |                  |                   |
| Unusual Fire and Explosion Hazards<br>None   |         |                  |                   |

|  |                |   |                     |
|--|----------------|---|---------------------|
| <b>Section V - Reactivity Data</b>   |                |   |                     |
| Stability  | Unstable       |   | Conditions to Avoid |
|  | Stable         | X | None                |
| Incompatibility Iron, steel, aluminum, or copper                               |                |   |                     |
| Hazardous Decomposition or Byproducts Toxic fumes of: CO, CO2, nitrogen oxides |                |   |                     |
| Hazardous Polymerization   | May Occur      |   | Conditions to Avoid |
|  | Will Not Occur | X |                     |

|   |             |       |            |
|---|-------------|-------|------------|
| <b>Section VI - Health Hazard Data</b>  |             |       |            |
| Route(s) of Entry:  | Inhalation? | Skin? | Ingestion? |
|   | Yes         | Yes   | Yes        |
| Health Hazards (Acute and Chronic) Toxicological properties have not been thoroughly investigated and upper respiratory tract, eyes and skin. |             |       |            |
| Carcinogenicity: NTP? IARC Monographs? OSHA Regulation?<br>----- No data -----  |             |       |            |
| Signs and Symptoms of Exposure<br>Can cause coughing, wheezing, respiratory distress, and diarrhea. Skin/eye irritation.                      |             |       |            |
| Medical Conditions Generally Aggravated by Exposure<br>No data  |             |       |            |
| Emergency First Aid Procedures<br>Treat symptomatically and supportively  |             |       |            |

|  |  |
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| <b>Section VII - Precautions for Safe Handling and Use</b>   |  |
| Steps to be Taken in case Material is Released for Spilled<br>Mop up with absorbant material. Dispose of properly.   |  |
| Waste Disposal Method<br>Bury in landfill site approved for disposal of chemical and hazardous waste.<br>Follow all federal, state, and local regulations. |  |
| Precautions to be Taken in Handling and Storing<br>Avoid contact. Do not store in contact with iron, steel, aluminum, or copper                            |  |
| Other Precautions<br>None  |  |

|  |                      |                |                |
|--|----------------------|----------------|----------------|
| <b>Section VIII - Control Measures</b>   |                      |                |                |
| Respiratory Protection (Specify Type) NIOSH-MSHA approved respirator               |                      |                |                |
| Ventilation  | Local Exhaust        | No             | Special        |
|  | Mechanical (General) | Yes            | Other Yes      |
| Protective Gloves  | Chemical resistant   | Eye Protection | Safety goggles |
| Other Protective Clothing or Equipment Rubber boots                                |                      |                |                |
| Work/Hygienic Practices Do not ingest. Avoid contact with skin, eyes and clothing. |                      |                |                |