

# MATERIAL SAFETY DATA SHEET

ARCOT Manufacturing Corporation  
2950 Mowery Road  
Houston, Texas 77045-4809

Emergency Telephone:  
(713) 413-9700  
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| SECTION I   |  |  |                           |                  |
|---|--|--|---------------------------|------------------|
| <b>Product Identity (Name / Number)</b>           |  | PHOS-BOSS Acid Based Rust Remover and Aluminum Brightener / 9679                                     |                           |                  |
| <b>Chemical Family</b>                            |  | Acid Cleaner. Corrosive liquids, n.o.s. (contains Phosphoric & hydrochloric acids), 8, UN1760, PGI1. |                           |                  |
| SECTION II - Hazardous Ingredients                |  |  |                           |                  |
| Hazardous Components                              | OSHA PEL   | ACGIH TLV  | Other Limits Recommended  | % (optional)     |
| Phosphoric Acid                                   | 3 mg/m <sup>3</sup>  | 3 mg/m <sup>3</sup>  |                           | Proprietary      |
| Hydrochloric Acid                                 | 5ppm   | 5ppm   |                           | Proprietary      |
| Isopropanol                                       | 400ppm   | 400ppm   |                           | Proprietary      |
|   |  |  |                           |                  |
|   |  |  |                           |                  |
| SECTION III - Physical & Chemical Characteristics |  |  |                           |                  |
| <b>Boiling Point</b>                              | Above 212°F  | <b>Specific Gravity</b>  | 1                         |                  |
| <b>Vapor Pressure (mm Hg)</b>                     | N/A  | <b>Melting Point</b>   | N/A                       |                  |
| <b>pH</b>   | 1  | <b>Evaporation Rate (Ethyl Ether=1)</b>  | Greater than 1            |                  |
| <b>Solubility in Water</b>                        | Complete   | <b>Appearance / Odor</b>   | Purplish Liquid / Pungent |                  |
| SECTION IV - Fire & Explosion Hazard Data         |  |  |                           |                  |
| <b>Flammable Limits (Explosive Limit)</b>         | <b>Upper:</b>  | N/A  | <b>Lower:</b>             | N/A              |
| <b>Flash Point (Method Used)</b>                  | N/A  |  |                           |                  |
| <b>Extinguishing Media</b>                        | Material is non-flammable. Water spray may be used for surrounding fires.  |  |                           |                  |
| <b>Special Fire Fighting Procedures</b>           | Product is not flammable, but may react with metals to liberate hydrogen gas, hydrogen chloride and phosphorous compounds. Vapor is also a health hazard. Firefighters should be equipped with NIOSH approved respirators, fully enclosed. |  |                           |                  |
| <b>Unusual Fire and Explosion Hazards</b>         | N/A  |  |                           |                  |
| SECTION V - Reactivity Data                       |  |  |                           |                  |
| <b>Stability:</b>                                 | <b>Unstable</b>  | X  | <b>Stable</b>             |                  |
| <b>Hazardous Polymerization:</b>                  | X  | <b>Will Not Occur</b>  |                           | <b>May Occur</b> |
| <b>Conditions To Avoid</b>                        | Excessive heat   |  |                           |                  |
| <b>Incompatibility (Materials to Avoid)</b>       | Metals and other chemicals, specially sulfides, strong alkalis, chlorides, stainless steel and oxidizing agents.   |  |                           |                  |
| <b>Hazardous Decomposition or Byproducts</b>      | Intensive heat may produce hydrogen chloride, carbon dioxide, carbon monoxide and phosphorus oxides.   |  |                           |                  |

**SECTION VI(a) - Health Hazard Data**

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | Irritating and corrosive to mucous membranes. Breathing mists may cause damage to nasal and respiratory passages.  |
| <b>Eye</b>        | Even slight contact of the liquid with eyes will result in irritation and severe burns.  |
| <b>Skin</b>       | Product is corrosive and will cause skin burns. It may not immediately cause burning upon skin contact. Burning sensation may be delayed. Treat immediately. |
| <b>Ingestion</b>  | Swallowing will result in severe damage to mucous membranes.   |

**Reported As Potential Carcinogen or Carcinogen**

|  |  |   |                       |
|--|--|---|-----------------------|
|  | <b>International Agency for Research on Cancer</b> | X | <b>Not Applicable</b> |
|  | <b>National Toxicology Program</b>                 |   | <b>OSHA</b>           |

**SECTION VI(b) - First Aid Procedures**

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | Remove victim to fresh air. If breathing is difficult, administer oxygen. If not breathing, perform artificial respiration. Get medical attention.                     |
| <b>Eye</b>        | Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.  |
| <b>Skin</b>       | Wash thoroughly with water for at least 15 minutes. Get medical attention.   |
| <b>Ingestion</b>  | DO NOT induce vomiting. If conscious and alert, give large quantities of water. Follow by administering milk or 2 oz. of milk of magnesia. Get medical attention ASAP. |

**SECTION VI(c) - Employee Protection**

**Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline.)** If TLV of product is exceeded, use NIOSH approved respirator, fully enclosed.

**SPECIAL PROTECTION INFORMATION:**

|                           |   |
|---------------------------|---|
| <b>EYE</b>                | Chemical splash goggles or face shield are required                         |
| <b>SKIN</b>               | Use nitrile or neoprene impermeable gloves                                  |
| <b>VENTILATION</b>        | Provide sufficient mechanical ventilation to maintain exposure below TLV's. |
| <b>SPECIAL PROTECTION</b> | Impervious clothing and boots may be worn to prevent skin contact.          |

**SECTION VII - Special Precautions**

|                             |  |
|-----------------------------|--|
| <b>Handling and Storage</b> | Store in dry, cool area. Excessive heat may cause pressure build-up. Avoid contact with sulfides and sulfites. Do not store with strong alkaline or alkali metals. |
| <b>Other Precautions</b>    | Avoid metals, oxidizing agents, cyanide, sulfides and sulfites. Do not mix with strong bases.  |

**SECTION VIII - Environmental Protection**

|                              |  |
|------------------------------|--|
| <b>Spills / Releases</b>     | Cover area with sodium (bi)carbonate; mix with water to form slurry. Scoop up and wash site with soda ash solution. If 5000 Lb. or more are released into the environment, it must be reported to the national response center (1-800-424-8802). |
| <b>Waste Disposal Method</b> | Neutralize acidity with sodium carbonate. Flush down drain with large amounts of water in accordance with applicable local, state and federal regulations.   |

**DISCLAIMER**

The information contained herein is based upon data available to us and reflects our best professional judgement. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations.

Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.