

# CANBERRA CORPORATION

## MATERIAL SAFETY DATA SHEET

### Section One Product and Company Information

**Product Name:** Descaler Metal Brightener **Date:** Sept. 1, 2006  
**Chemical Family:** Acid **Application:** Acid cleaner **CAS#:** Mixture  
**Manufacturer:** Canberra Corporation **Product Technical Information:** 1-419-841-6616  
3610 Holland-Sylvania Rd. **Medical/Handling Emergency:** 1-419-841-6616  
Toledo, Ohio 43615 **Transportation Emergency:** Chemtrec 1-800-424-9300

### Section Two Composition/Information on Ingredients

<b>Component</b>	<b>Hazard</b>	<b>CAS#</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>%</b>
Phosphoric Acid	Corrosive	7664-38-2	3 mg/M <sup>3</sup>	1 mg/M <sup>3</sup>	< 10
Water	N/A	7732-18-5	N/A	N/A	> 88
Nonoxynol	Eye irritant	9016-45-9	N/A	N/A	< 2

### Section Three Hazards Identification

**Statement of Hazards:** Danger: Causes eye and skin damage. Corrosive Liquid. Overexposure may cause severe irritation and burning of affected areas.

**Fire and Explosion Hazards:** This product is water based and represents little or no fire hazard at room temperature. Thermal decomposition products may include carbon monoxide, carbon dioxide and phosphorous oxides.

**Primary Route of Exposure:** Skin and eye contact are the principal routes of exposure to this product.

**Skin Contact** - Skin contact can cause severe irritation or burns with possible redness, swelling or blistering. Severity of action is dependent on contact time.

**Eye Contact** - Eye contact may cause severe irritation or burns. May cause permanent eye damage, if not promptly flushed with plenty of water.

**Ingestion** - If swallowed, this product may cause severe irritation or damage of mucosal linings of the mouth, throat, esophagus or stomach.

**Inhalation** - Inhalation can cause irritation and burning of respiratory passages.

**Carcinogenicity:** IARC - No NTP - No OSHA - No ACGIH - No

### Section Four First Aid Measures

**Skin Contact:** Immediately remove contaminated shoes and clothing. Wash with soap and plenty of water for 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention. Wash contaminated clothing before reuse.

**Eye Contact:** Immediate first aid is required to prevent eye damage. Flush immediately with water and remove contact lenses, if applicable. Then flush with large quantities of running water for 15 minutes. Hold eyelids apart during flushing to ensure complete rinsing of entire surface of eye and lids with water. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Continue flushing with water if physician is not immediately available.

**Ingestion:** DO NOT induce vomiting. Rinse mouth with water. Then give 1-2 glasses of water or milk and call a physician or poison control center immediately. If vomiting occurs, keep head below hips to reduce risk of aspiration. Give water again. **NEVER** give anything by mouth to a person who is unconscious or convulsing. Get medical attention immediately.

**Medical Conditions Aggravated:** No data is available that addresses medical conditions that are generally recognized as being aggravated by exposure to this product. **Note to Physician:** Treat exposed patients symptomatically.

### Section Five Fire Fighting Measures

**Flash Point (Method):** None **Flammable Limits:** Not applicable.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide or foam extinguishing agents unless contraindicated by surrounding environment.

**Special Fire Fighting Procedures:** Prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from fire area. All ignition sources should be extinguished. Fire fighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing. Keep containers cooled with water spray to prevent rupture from excess heat.

**Fire and Explosion Hazards:** No unusual fire or explosion hazards of this product are known.

**Hazardous Products:** Burning of this product may generate oxides of carbon, and phosphorous.

### Section Six Accidental Release Measures

**Caution:** If spilled, floors may be extremely slippery. Wear appropriate protective gear to avoid skin or eye contact. Dike and contain spill with inert material (sand, clay). Transfer liquid and solids to separate containers for recovery or proper disposal. Keep spill out of storm sewers and open bodies of water. After removal, flush area with water. Follow good industrial hygiene practices. Wash thoroughly after clean up. If uncertain about proper disposal, contact your local waste disposal provider or the regional office of the Environmental Protection Agency for guidance.

### Section Seven Handling and Storage

**Handling:** Avoid contact with skin or eyes. Avoid breathing vapor, spray or mist. Use product only according to label directions. If unsure about safe use, contact your supervisor immediately. Wash with soap and water after handling. **Storage:** Store in original container in a cool, dry, well-ventilated area away from sources of ignition. Store away from food or feed. Containers should be kept tightly closed when not in use. Keep in an area inaccessible to children.

### Section Eight Exposure Controls/Personal Protection

#### **Personal Protective Equipment**

**Respiratory:** Respiratory protection is not expected to be necessary under normal conditions of use. Where exposure cannot be adequately controlled by general or local ventilation, use appropriate respiratory protection to prevent over exposure. An approved dust/mist respirator would be recommended.

**Gloves:** Use water impervious gloves, such as latex or neoprene rubber. **Eye Protection:** Chemical resistant goggles or face shield are recommended.

**Other:** Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

#### **Engineering Controls**

**Ventilation:** In applications where sprays or mists may be generated, proper ventilation in accordance with good industrial hygiene should be provided.

<u><b>Section Nine</b></u>		<u><b>Physical/Chemical Properties</b></u>					
<b>Form</b>	Liquid	<b>pH</b>	< 1	<b>Color</b>	Yellow	<b>Specific Gravity</b>	1.020
<b>Odor</b>	None	<b>Solubility</b>	Completely soluble	<b>Boiling Point</b>	190-212°F	<b>Freezing Point</b>	Not Established
<b>Evaporation Rate</b>	> water	<b>% Volatile</b>	> 65%				

**Section Ten**                      **Stability and Reactivity**

**Stability:** This product is stable at ambient temperatures and atmospheric pressures. It is not self- reactive and has a shelf life of at least one year under sealed conditions. Conditions to avoid are temperatures above 130° F or below 32° F. **Do not mix with other chemicals. Hazardous conditions may arise from improper mixing of chemicals.**

**Hazardous Decomposition Products:** Thermal decomposition may generate toxic materials such as oxides of carbon, nitrogen, or phosphorus.

**Dangerous Polymerization:** Will not occur. Conditions to avoid: None

**Dangerous Reactions:** May react with strong bases to give exothermic conditions.

**Section Eleven**                      **Toxicology Information**

**Acute Toxicity:** This product has not been evaluated for its acute toxicology profile.

**Chronic Toxicity:** This product has not been evaluated for its chronic toxicology profile.

**Carcinogenicity:** This product does not contain a listed carcinogen from NTP, ACGIH or IARC.

**Irritation:** This product can be expected to be a skin and eye corrosive. No skin sensitization data is currently available.

**Section Twelve**                      **Ecology Information**

**Ecotoxicity:** The ecological toxicity of this product is not known.

**Section Thirteen**                      **Disposal Considerations**

**Waste Disposal:** Material that cannot be used according to label direction and is destined for disposal should be disposed of in accordance with all applicable regulations. Empty containers should be triple rinsed and offered for recycling or reconditioning, or disposed of in a sanitary landfill or for small containers (1 gallon or less), may be wrapped and discarded in trash. Waste generators are required to evaluate all waste material to determine if it is hazardous by characteristics or listing for compliance with RCRA and any local disposal procedures and regulations. NOTE: State and local regulations may be more stringent than Federal regulations.

**Section Fourteen** **Transport Information**

DOT

<b>Proper Shipping Name:</b>	Consumer Commodity	<b>Hazard Class:</b>	ORM-D	<b>Packing Group:</b>	III
<b>ID Number:</b>	UN1805	<b>DOT Label:</b>	ORM-D	<b>Emergency Guide No.:</b>	154
<b>Emergency Phone No.:</b>	CHEMTREC 1-800-424-9300				

**Section Fifteen**                      **Regulatory Information**

**Toxic Substances Control Act (TSCA)** All of the components intentionally added to this product are listed on the on the U.S.EPA TSCA inventory.

**SARA Title III**

**Section 302:** This product contains the following chemicals subject to SARA 302 reporting: None.

**Section 311/312:** This product is classified as an "immediate (acute) health hazard".

**Section 313:** \*Chemicals marked with an asterisk in **Section Two** are subject to the reporting requirements for Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR Part 372. However, if this product is utilized for routine janitorial maintenance, it is exempted from this section, as stated in paragraph B.3.b Activity Exemptions of the Form R instructions.

**OSHA Hazard Communication Standard (29 CFR 1910.1200)** This product is hazardous by definition of the Hazard Communication Standard.

**Canada Domestic Substance List** All of the ingredients intentionally added to this product are listed on the DSL.

**Canada WHMIS** Class E

**NPCA Hazardous Material Identification System (HMIS Rating)**

Health 2 Flammability 0 Reactivity 0 Personal Protective Eqpt. B

**State Regulations**

**Pennsylvania/New Jersey/Massachusetts Right to Know**

See "**Section Two Composition**" for listing of hazardous and top five ingredients present in concentration greater than 1%.

**California Proposition 65** Components of this product present at a concentration that could require reporting under this statute are: None.

**Section Sixteen**                      **Other Information**

**Disclaimer:** No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present unknown health hazards and should be used with caution. The information and recommendations contained herein are presented in good faith and are supplied pursuant to 29 CFR 1910.1200. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable Federal, State and local regulations governing the use and disposal of this material.

**Prepared by:** Regulatory Affairs Dept./450-006