

# TECHNICAL DATA



## ***M-109***

### **A GENERAL ACID CLEANER & ALUMINUM CLEANER**

M-109 is a clear stable and highly active acid cleaner and brightener for removing soil deposits, soap accumulations and oxide film. M-109 may be used in a variety of specialty cleaning situations such as: cleaning heavily soiled walls, cleaning car wash facilities, polish aluminum rims on automobiles, cleaning imbedded dirt from cement floors, cleaning heavy equipment etc. M-109 is mildly acidic and has excellent wetting agents, penetrating soil removal characteristics. It performs extremely well on aluminum and stainless steel surfaces. Use M-109 as a light rust remover.

### ***APPLICATION PROCEDURE***

Dilute M-109 with one to twelve parts of water to one part chemical. Apply to surface with a clean brush or wiper. Allow to remain on surfaces to be cleaned from fifteen seconds on glass to several minutes to loosen heavy deposits. Always use fresh water to rinse, following the cleaning or brightening.

Note: Although not considered a strong acid, it is always recommended that normal precautions for handling acidic material be followed i.e. wear rubber gloves and protective eye wear. High concentration of M-109 should not remain on painted surfaces for prolonged times. In addition a slight etch may occur on glass after prolonged exposure. Do not allow concentrate to remain in contact with skin or clothing.

### ***STORAGE***

Avoid excessive heat and keep product from freezing.

# MATERIAL SAFETY DATA SHEET

## Section 1 - Product Identification and Use.

**Product Name:** M-109

**Use:** Acid Cleaner for Car Washes

**Manufacturer:**

Mondo Products Company Limited  
695 Westney Road South  
Unit #1, Ajax, Ontario L1S 6M9  
Emergency No. : 1-800-465-5676  
Canutec No.: 1-613-996-6666

**Supplier:**

Same

**TDG Hazard Classification:** Phosphoric Acid Solution 8 (9.2) III

**WHIMIS Classification:** E

## Section 2 - Hazardous Ingredients

Hazardous Ingredients	%w/w	PIN/CAS #	LD 50	LC 50
Phosphoric Acid	15-30	7664-38-2	1530mg/kg	n/a
Ethyleneglycol Monobutylether	1-5	111-76-2	1480mg/kg	500 ppm/4h
Alcohol Ethoxylate	1-5	68439-46-3	n/d	n/d

## Section 3 - Physical Data

**Physical State :** Liquid

**Appearance / Odour :** Clear/Mild Odour

**pH :** 1.5

**Freezing Point (~C) :** 0~

**Vapour Pressure :** Same as Water

**Solubility In Water:** (20~C) : Soluble

**Boiling Point (°C):** 100

**Coefficient of Water/Oil Distribution :** n/d

**Evaporation Rate :** n/e

**Specified Gravity (g/cc) :** 1.35

**Vapour Density :** Same as Water

**Percentage Volatile :** >75%

**Odour Threshold (PPM):** n/d

## Section 4 - Fire and Explosion Data

**Flammable** [ ] Yes [ X ] No

**Flash Point (~C) :** n/a

**Auto Ignition Temp (~C) :** n/a

**Extinguishing Media :** Water [X]; Dry Chemical [X]; Carbon Dioxide [X]; Foam[X]

**Special Fire Fighting Procedures :** Normal fire fighting procedures may be used.

**Hazardous Combustion Products :** Oxides of Carbon, and products of incomplete combustion.

**Explosive Sensitivity :** none

## Section 5 - Reactivity Data

**Stability :** [ ] Stable [ X ] Unstable [ ]

**Conditions to Avoid :** none known

**Incompatibility (Materials to Avoid) :** Alkine or chlorinated materials.

**Hazardous Decomposition Products :** Alkine products produce heat. Carbonated products produce Chlorine gas

**Conditions of Reactivity :** n/a

## **Section 6 - Toxicological Properties**

### **Effects of Acute Exposure to Materials**

**Eyes** : Corrosive. Severe irritation. May cause permanent damage if not treated promptly.

**Skin** : Corrosive. Severe irritation. May cause permanent damage if not treated promptly.

**Ingestion**: Corrosive. Severe irritation. cause gastritis, ulcerations, and scarring of digestion tract.

**Inhalation**: Mist may slightly irritate nose, throat and lungs.

**Effects of Chronic Exposure to Materials** : n/d

## **Section 7 - Preventative Measures**

### **Personal Protective Equipment**

**Gloves** : Rubber Gloves

**Other** : Impervious Clothes

**Footwear** : Rubber Boots

**Eye Protection**: Chemical Goggles

**Respiratory Equipment**: None Required.

**Special Handling Procedures**: Avoid contact with eyes and skin.

**Ventilation Requirements** :Use a well ventilated area.

Incompatibility: Alkaline and Chlorinated materials.

**Spill Procedures** : Small spills - flush with water. Large Spill - neutralize with alkaline material and dump storage container. Flush spill area with lots of water.

**Waste Disposal**: Dispose in accordance with all Local, Provincial and Federal Regulations.

**Storage Requirements**: Store in a cool, dry area, in a closed container. Avoid freezing.

## **Section 8 - First Aid Measures**

**Eyes**: Flush with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a Physician.

**Skin**: Wash contaminated area with warm water. If irritation continues get medical attention.

**Ingestion**: If victim is conscious administer 1-2 glasses of water or milk. Contact a Physician.

**Inhalation**: Remove victim to fresh air. Contact a Physician if breathing difficulties persist.

Additional information: n/a

## **Section 9 - MSDS Preparation**

**Sources Used** : MSDS, WHIMIS Regs.

**Preparation Date** : October, 2010

Prepared By: Mondo Products Company Limited  
 Lab Personal  
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 Ajax, Ontario  
 L1S 6M9

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