

#452


**MATERIAL SAFETY DATA SHEET****SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: <b>GLASS CLEANER</b>		WHMIS Classification: <b>MINIMAL</b>	
Product Use: <b>Cleaner and Restorer</b>			
Manufacturer's Name: <b>MICRO CHEMICAL MANUFACTURING &amp; SUPPLIES LTD.</b>		Suppliers Name <b>SMITH &amp; JONES JANITORIAL SUPPLIES AND EQUIPMENT</b>	
Street Address: <b>1462 E. MISSION BOULEVARD</b>		Street Address <b>1 BILOXI SQUARE</b>	
City: <b>POMONA</b>	Province / State <b>CA</b>	City <b>WEST COLUMBIA</b>	State <b>SC</b>
Postal Code: <b>91766</b>	Emergency Telephone: <b>1-800-535-5053</b>	Postal Code <b>29170</b>	Emergency Telephone <b>1-803-822-8500</b>
Date MSDS Prepared: <b>FEBRUARY 2010</b>	MSDS Prepared by: <b>MICRO CHEMICAL MANUFACTURING &amp; SUPPLIES LTD.</b>		Phone Number: <b>909-620-0949</b>

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Ingredients ( <i>specific</i> )	%	CAS Number	LD <sub>50</sub> of Ingredient ( <i>specify species and route</i> )	LC <sub>50</sub> of Ingredient ( <i>specify species</i> )
<b>C9-C11 Linear Primary alcohol Ethoxylate</b>	<b>2</b>	<b>68439-46-3</b>	<b>1400 mg/kg (oral, rat)</b>	<b>N/AV</b>
<b>Potassium Hydroxide</b>	<b>1</b>	<b>1310-58-3</b>	<b>365 mg/kg (oral, rat)</b>	<b>N/AV</b>
<b>Propylene Glycol</b>	<b>2</b>	<b>57-55-6</b>	<b>20g/kg (oral, rat)</b>	<b>N/AV</b>
<b>Water</b>	<b>95</b>	<b>7732-18-5</b>	<b>N/AV</b>	<b>N/AV</b>
<b>Fragrance</b>	<b>0.01</b>	<b>N/AP</b>	<b>N/AP</b>	<b>N/AP</b>

**SECTION 3 - HAZARDS IDENTIFICATION**

Route of Entry <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input type="checkbox"/> Eye Contact <input type="checkbox"/> inhalation <input checked="" type="checkbox"/> Ingestion
[Emergency Overview]
[WHMIS Symbols] 
[Potential Health Effects] prolonged exposure may cause skin defatting or Dermatitis

**SECTION 4 - FIRST AID MEASURES**

Skin Contact Flush with copious amounts of potable water. If irritation persists seek medical attention
Eye Contact Flush with copious amounts of potable water. If irritation persists seek medical attention
Inhalation
Ingestion Drink 3-4 glasses of MILK or WATER. NO NOT INDUCE vomiting. Seek Medical Attention

**SECTION 5 - FIRE FIGHTING MEASURES**

Flammable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, under which conditions?	
Means of Extinction <b>As for surrounding Fire. Normal Fire - Fighting Procedures</b>			
Flashpoint (°C) and Method N/AP	Upper Flammable Limit (% by volume) N/AP	Lower Flammable Limit (% by volume) N/AP	
Autoignition Temperature (°C) N/AP	Explosion Data - Sensitivity to Impact N/AP	Explosion Data - Sensivity to Static Discharge N/AP	
Hazardous Combustion Products <b>Oxides of Carbon</b> [NFPA] NONE			

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Leak and Spill Procedures <b>Rinse with water and let dry</b>
--

**SECTION 7 - HANDLING AND STORAGE**

Handling Procedures and Equipment <b>Normal Procedures. Keep from freezing</b>
Storage Requirements <b>Store in well ventilated area. Recommended temperature 15°C</b>

**SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION**

Exposure Limits <input type="checkbox"/> N/AV <input checked="" type="checkbox"/> ACGIH TLV <input checked="" type="checkbox"/> OSHA PEL <input type="checkbox"/> Other ( <i>specify</i> )
Specific Engineering Controls (such as ventilation enclosed process) <b>Normal ventilation</b>
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type <b>Rubber or neoprene</b> <b>For spills or overexposure NIOSH Approved, organic vapour cartridges.</b> <b>Chemical splash goggles.</b> <b>Impervious</b>

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State <b>Liquid</b>	Odour and Appearance <b>Natural citrus odour. Yellow color</b>	Odour Threshold (ppm)
Specific Gravity <b>1.02 + 0.01</b>	Vapour Density (air = 1) <b>4.1</b>	Vapour Pressure (mmHg) <b>1.7 mmHg</b>
Evaporation Rate <b>0.22</b>	Boiling Point (°C) <b>&gt;100°C</b>	Freezing Point (°C) <b>&lt;0°C</b>
pH <b>9.5 + 0.5 at 1% sol</b>	Coefficient of Water / Oil Distribution <b>100% water soluble</b>	[Solubility in Water] <b>100%</b>

**SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? <b>Strong oxidizing agents, strong acids</b>
Reactivity, and under what conditions? <b>None</b>	
Hazardous Decomposition Products <b>None</b>	

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure <b>Inhalation, eye, skin contact. May cause irritation</b>	
<b>Ingestion may cause irritation to mouth &amp; throat &amp; alimentary tract</b>	
Effects of Chronic Exposure <b>Prolonged exposure may cause skin defatting or Dermatitis</b>	
Irritancy of Product <b>contact with eyes / skin</b>	
Skin Sensitization	Respiratory Sensitization
Carcinogenicity -IARC <b>No</b>	Carcinogenicity - ACGIH <b>No</b>
Reproductive Toxicity <b>N/A</b>	Teratogenicity <b>N/A</b>
Embryotoxicity	Mutagenicity <b>N/A</b>

N/A

Product Identifier GLASS CLEANER

Page 4/4

**SECTION 12 - ECOLOGICAL INFORMATION**

Aquatic Toxicity Mobility: N/A Persistence: N/A Bioaccumulative: N/A

Aquatic Toxicity: Acute fish toxicity. LD<sub>50</sub>=138 mg/L/96 hours. Mosquito fish

Acute Crustaceans Toxicity= N/A Acute Algae Toxicity= N/A

BOD and COD = N/A. Other information: Material is practically non toxic to fish on an acute basis.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste Disposal

According to local, provincial and federal government requirements

**SECTION 14 - TRANSPORT INFORMATION**

Special Shipping Information

PIN

TDG

[DOT]

[IMO]

[ICAO]

**SECTION 15 - REGULATORY INFORMATION**

[WHMIS Classification] Class D Div 2 Materials Causing Other Toxic Effects



[OSHA]

[SERA]

[TSCA]

This product has been classified in accordance with the hazard criteria of the Products Regulations (CPR) and the MSDS contains all of the information required by CPR

Controlled

**SECTION 16 - OTHER INFORMATION**

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.