

## MATERIAL SAFETY DATA SHEET

The following MSDS is prepared based on : WHMIS INFORMATION: The Canadian Workplace Hazardous Information Systems (WHMIS) Classification for this product.

**PRODUCT:** *HURRISAFE 9060 Industrial Degreaser*

SHIPPING CLASS FOR HURRISAFE 9060 Industrial Degreaser (Concentrated)

55 Cleaning Compound, Non Hazardous

### 1. SECTION I: HAZARDOUS INGREDIENTS

| <i>Chemical Identity</i>             | <i>Concentration</i> | <i>CAS Number</i> |
|--------------------------------------|----------------------|-------------------|
| <i>Ethylene glycol n butyl ether</i> | <i>&lt; 10 %</i>     | <i>111-76-2</i>   |

#### **Toxicological Information**

Skin: The LD<sub>50</sub> for skin absorption in rabbits is 220 mg/kg.

Ingestion: The oral LD<sub>50</sub> for rats is 470 mg/kg.

Inhalation: The LC<sub>50</sub> for rats is 700 ppm in 7 hours

Mutagenicity: In vitro mutagenicity studies were inconclusive.

Animal mutagenicity studies were negative.

### 2. SECTION II: PREPARATION INFORMATION

|   |   |                     |
|---|---|---------------------|
| Prepared by:  | Phone Number:   | Date of Preparation |
| PCI OF AMERICA<br>2701 Tower Oaks Blvd<br>Suite 300<br>Rockville Maryland 20852 | (800) 222-1455<br>(301) 468-1700<br>(301) 581-2519 Fax<br>www.Hurrisafe.com | 11-11-08            |

**3. SECTION III: PRODUCT INFORMATION**

Product Identifier: Hurrisafe 9060 Industrial Degreaser  
 Manufacturers Name: PCI of America  
 Street Name: 2701 Tower Oaks Blvd , Suite 300  
 City, State: Rockville Maryland  
 Zip Code: 20852  
 Country: USA  
 Phone: (800) 222-1455 (301) 468-1700 Fax (301) 468-1744  
 E-Mail: Bobbiepettit@hurrisafe.com  
 `Supplier's Name: N/A  
 Street Name: N/A  
 City: N/A  
 Province: N/A  
 Postal Code: N/A  
 Phone: N/A

PRODUCT USE: To be diluted 3:1 to 15:1 with water in heated spray cabinet washers, immersion degreasers.

**4. SECTION IV: PHYSICAL DATA**

|   |   |                                   |
|---|---|-----------------------------------|
| Physical State<br>Liquid  | Odor and Appearance<br>Clear with mild odor   | Evaporation Rate (Water=1)<br>1.0 |
| Specific Gravity (water=1)<br>1.01  | Co-efficient of Water/Oil Distribution<br>N/A | Vapor Pressure<br>14.2 mmHg       |
| Boiling Point (°C)<br>100 (°C)  | Freezing Point (°C)<br>0                      | Vapor Density (Air-1)<br>0.62     |
| VOC as per SCAQMD 313-91<br>50 gm/l in concentrate<br>15 gm/l at a 1:3 dilution | Percent Volatile (by-Volume)<br>N/A           | pH of Concentrate<br>11.4-11.8    |
| Percent by Weight: 15 gram/liter = 0.125 181 066 78 pound/gallon [US]           |   |                                   |

**5. SECTION V FIRE EXPLOSION HAZARD**

|                                   |   |
|-----------------------------------|---|
| Conditions of Flammability:       | Non Flammable                                 |
| Means of Extinction:              | No special fire fighting procedures required. |
| Explosion Data:                   | None  |
| Sensitivity to Mechanical Impact: | None  |
| Sensitivity to Static Discharge:  | None  |
| Flashpoint (°C) :                 | None  |
| Upper Flammable Limit %:          | N/A   |
| Lower Flammable Limit %:          | N/A   |
| Autoignition Temperature (°C)     | N/A   |
| Hazardous Combustion Product:     | No  |

**6. SECTION VI: REACTIVITY DATA**

|                                   |                                |
|-----------------------------------|--------------------------------|
| Stability:                        | Yes                            |
| Incompatible Materials:           | Yes, avoid oxidizing materials |
| Conditions of Reactivity:         | None                           |
| Hazardous Decomposition Products: | None                           |
| Incompatible Materials:           | Yes, avoid oxidizing materials |
| Conditions of Reactivity:         | None                           |
| Hazardous Decomposition Products: | None                           |

**7. SECTION VII: TOXICOLOGICAL PROPERTIES**

|   |  |
|---|--|
| Route of Entry:   | Skin   |
| Effects of Chronic Exposure to Product:   | This is relatively innocuous substance not expected to cause harm. should treatment ever be required. it would be directed at control of symptoms. |
| Exposure Limits:  | 50 ppm   |
| Irritancy to Product:   | Skin Irritant, may cause sin dryness and irritation.   |
| Synergistic Products:   | None   |
| Evidence of Carcinogenicity, Reproductive Toxicity, Teratogenicity or Mutagenicity: | None   |
| Sensitivity to Product:   | N/A  |

**8. SECTION VIII: PREVENTATIVE MEASURES**

|                                |  |
|--------------------------------|--|
| Personal Protective Equipment: | N/A  |
| Gloves:                        | Yes, use gloves to prevent skin dryness  |
| Respiratory (specify):         | None   |
| Eyes (specify):                | Use chemical goggles if splashing is expected  |
| Footwear (specify):            | No   |
| Other Equipment (specify):     | Wear plastic apron if excessive splashing is expected. If clothing becomes soaked, remove, shower and wash clothing. |
| Engineering Controls:          | Use adequate ventilation, local exhaust is sufficient.   |
| Leak and Spill Procedure:      | Small spills flush with water.<br>Large spills: absorb with sawdust, sand or earth                                   |
| Waste Disposal:                | Dispose of in accordance with local, Provincial and Federal Regulations.   |
| Handling Procedures:           | Use only with adequate ventilation.  |
| Storage Requirements:          | Store in cool dry area. Prevent freezing. If frozen thaw, stir well and use.   |
| Special Shipping Information:  | Non-hazardous, class 55, cleaning compound, non-flammable and non-combustible.                                       |

***Ecotoxicity Information on : Ethylene glycol n butyl ether***

Acute LC50 for Fathead Minnow (imephales promelas) is 1700-2137 mg/L  
Acute LC50 for water flea (daphnia magna) is 835-1720 mg/L  
Acute LC50 for bluegill trout (leppomis macrochirus) 127 mg/L  
Acute LC50 for rainbow trout (oncorhynchus mykiss) is greater than 1000 mg/L  
Acute LC50 for guppy (poecilia eticulata) is 983 mg/L  
Acute LC50 for brown shrimp (crangon crangon) 9s 775 mg/L  
Growth inhibition threshold in bacteria is greater than 1000 mg/L.  
Growth inhibition EC50 for green alga  
Selenastrum capricornutum is greater than 1000mg/L

**9. SECTION IX: FIRST AID MEASURES**

|                         |   |
|-------------------------|---|
| Inhalation:             | Remove to fresh air.  |
| Ingestion:              | If swallowed drink warm water to dilute stomach contents, induce vomiting.  |
| Eye Contact:            | Flush eyes with water for 15 minutes, lifting lower and upper lids. seek attention if irritation persists.  |
| Skin Contact:           | Flush thoroughly with soap and water. Dry and apply skin lotion.  |
| Additional information: | N/A   |
| Source Used:            | Dow Chemicals Inc. Midland MI 48674. 4-08-99 000046<br>V.K. Rowe and M.A. Wolf<br>Patty's Industrial Hygiene and Toxicology<br>Van Waters & Rogers MSDS |

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