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## Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

### I. PRODUCT IDENTIFICATION

**Product Name:** PC BRAKE & PARTS CLEANER 540G AE  
**Item No:** 29214  
**Product Type:** Aerosol cleaner

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
TETRACHLOROETHYLENE 127-18-4	60-70	2629 mg/kg	4000 ppm/4H	25 ppm
XYLENE 1330-20-7	20-30	4300 mg/kg	5000 ppm/4H; 47635 mg/L/4H	100 ppm
ETHYL BENZENE 100-41-4	<5	3500 mg/kg	17.2 mg/L/4H	100 ppm
CARBON DIOXIDE 124-38-9	<5	not available	not available	5000 ppm

### III. PHYSICAL DATA

**Physical State/Appearance:** Aerosol/Clear liquid  
**Odour & Odour Threshold:** Ether odour  
**Specific Gravity:** 1.59-1.69  
**Evaporation Rate:** >1 (Ether = 1)  
**Vapour Pressure:** Not determined  
**Vapour Density:** Heavier than air  
**Freezing Point:** Not determined  
**pH:** Does not apply  
**Octanol/Water Coefficient:** Not determined  
**Boiling Point:** 93°C

### IV. FIRE AND EXPLOSIVE DATA

**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.  
**Hazardous Combustion Products:** Oxides of carbon, hydrogen chloride, carbonyl chloride.  
**Sensitivity to Static Discharge:** Aerosol cans are under pressure and may explode in fire.  
**Conditions of Flammability:** Contents under pressure. Containers may explode if heated. Keep containers cool. Use equipment or shielding to protect personnel from bursting containers. Do not use on vehicle unless cool.  
**Flash Point/Range:** No flame projection  
**Autoignition Temperature:** Not determined  
**Upper Explosive Limit:** Not determined  
**Lower Explosive Limit:** Not determined

### V. REACTIVITY DATA

**Conditions Causing Chemical Instability:** Stable  
**Materials to avoid:** Strong oxidizers, Heavy metal salts, Strong bases  
**Conditions of Reactivity:** None  
**Hazardous Decomposition Products:** Hydrogen chloride, phosgene, chlorine.

### VI. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Eye and skin contact, ingestion, inhalation  
**Existing Conditions Aggravated by Exposure:** Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected.  
**Toxicity Information:** (See Effects of Acute Exposure to Product)

## **VI. HAZARDS IDENTIFICATION**

<b>Effects of Acute Exposure:</b>	Excessive exposure may cause headache, nausea, dizziness and in extreme cases, unconsciousness, respiratory depression. Harmful if swallowed. High concentration may cause respiratory irritation and central nervous system depression with dizziness, headache, unconsciousness. Intentionally concentrating and inhaling the vapor may be harmful or fatal. May cause eye and skin irritation. . This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage. Aspiration into the lungs can cause pneumonia which can be fatal. Vapors are anesthetic in high concentrations.
<b>Effects of Chronic Exposure:</b>	Cardiovascular effects. Laboratory rats exposed to prolonged high Xylene concentrations suffered hearing loss. Rats exposed to Xylene vapor during pregnancy have shown embryo/fetotoxic effects. Mice exposed orally to doses of Xylene which produced maternal toxicity have also shown embryo/fetotoxic effects. Liver and kidney damage. Reports have associated repeated and prolonged overexposure to solvents with permanent brain damage and nervous system damage.
<b>Irritancy of Product:</b>	Breathing: Symptoms are typically seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: 1) Nasal and respiratory irritation (nose, throat and lung), preexisting lung disorder, e.g. asthma-like conditions, may be aggravated by exposure to this material. 2) Central nervous system (CNS) depression effects; dizziness, drowsiness, weakness, fatigue, nausea, headache, possible unconsciousness, coma and even death. 3) Cardiac arrhythmias (irregular heartbeat). 4) Cough. Eyes: Exposure to liquid or vapor causes mild eye irritation. Symptoms may include burning, tearing, redness, stinging, blurred vision and corneal injury. May cause dermatitis on prolonged contact in sensitive individuals. Swallowing: This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage. Aspiration of material into the lungs can cause chemical pneumonia which can be fatal. Symptoms may include: 1) throat irritation, 2) gastrointestinal irritation (nausea, vomiting, diarrhea), 3) central nervous system depression; dizziness, drowsiness, weakness, fatigue, nausea, headache, possible unconsciousness, coma and even death, 4) high blood sugar.
<b>Sensitization to Product:</b>	<b>(See Effects of Acute Exposure to Product)</b>
<b>Carcinogenicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Reproductive Toxicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Teratogenicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Mutagenicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Toxicologically Synergistic Products:</b>	None known
<b>WHMIS Hazard Class:</b>	B5 FLAMMABLE AEROSOLS, D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

## **VII. PREVENTATIVE MEASURES**

<b>Personal Protection</b>	
<b>Eyes:</b>	Safety glasses.
<b>Skin:</b>	Neoprene or nitrile gloves recommended.
<b>Ventilation:</b>	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
<b>Engineering Controls:</b>	In case of insufficient ventilation, wear an organic vapor respirator.
<b>Spill Procedures:</b>	Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
<b>Protection of Man and Environment:</b>	Follow Canadian and local regulations for disposal.
<b>Handling Procedures and Equipment:</b>	Contents under pressure. Do not puncture or incinerate container. Keep away from sources of ignition and hot surfaces. Store away from heat, sparks and open flame. Store at temperatures below 50°C. Avoid breathing vapours. Use good personal hygiene. Avoid smoking, eating or drinking during use.
<b>Special Handling Information:</b>	Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use. Do not spray into eyes or onto skin. Do not use for prolonged periods in confined area without adequate ventilation. Keep away from heat, sparks and open flame.

## **VIII. FIRST AID MEASURES**

<b>Ingestion:</b>	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

## **IX. SHIPPING INFORMATION**

### **Canadian Transportation of Dangerous Goods**

<b>Proper Shipping Name:</b>	Aerosols, flammable, containing substances in Division 6.1, Packing Group III. (May qualify as a Consumer Commodity or Limited Quantity. Refer to TDG regulations.)
<b>Hazard Class:</b>	2.1 (6.1)
<b>UN/ID No:</b>	UN 1950

### **IATA**

<b>Proper Shipping Name:</b>	Aerosols, flammable, containing substances in Division 6.1, Packing Group III
<b>Class or Division:</b>	Class 2.1, Subsidiary Risk 6.1

**Product Name:** PC BRAKE & PARTS CLEANER 540G  
AE

**Item No:** 29214

**UN/ID Number:** UN 1950

**IMDG**

**Proper Shipping:** Aerosols, (Tetrachloroethylene), Marine Pollutant, Limited Quantity  
**Hazard Class:** Class 2, 6.1  
**UN Number:** UN 1950

**X. PREPARATION INFORMATION**

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 2, PHYSICAL HAZARD 0  
HMIS is a registered trademark of the National Paint and Coatings Assn.

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 2, REACTIVITY 0  
NFPA is a registered trademark of the National Fire Protection Assn.

**Prepared By:** Denise Boyd, Manager-Environmental, Health & Safety

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**Company:**  
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