



MATERIAL SAFETY DATA SHEETS

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : **SILVERWAX 73 RIM CLEANER**
Chemical name and synonyms : Not applicable (mixture)
Manufacturer : Laboratoire Hygienex Inc. Supplier : Same
Address : 145 boul. Wilfrid-Hamel Address : Same
 Québec (Québec)
 Canada G1L 4H8
Phone : 1-418-522-2332 Phone : Same
Emergency phone (CANUTEC) : (613) 996-6666
Issue by : Laboratoire Hygienex Inc.
Product use : Aluminum wheel cleaner
 (Industrial/Institutional)

<u>HMIS Rating :</u>	
Health :	3
Flammability :	0
Reactivity :	2
Personal protection :	G

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS</u>	<u>% p/p</u>
Sulfuric acid	7664-93-9	15 – 20
Phosphoric acid	7664-38-2	5 – 10
Ammonium hydrogen fluoride	1341-49-7	1 – 5
Ethanol, 2-Butoxy-	111-76-2	1 – 5

Exposure limit informations: see Section 8

SECTION 3 : HAZARDS IDENTIFICATION

Eyes contact : Direct contact may cause severe irritation or burns.
Skin contact : May cause skin severe irritation, allergic skin reaction and dermatitis
Inhalation : Can cause burns or irritation of the respiratory tracts.
Ingestion : Very harmful if swallowed. Large doses can cause fluoride poisoning which can be fatal. Cause severe irritation to mouth, throat, gastrointestinal tract.

Effects of repeated overexposure

Skin : Will cause corrosive effects (burns or irreversible damage) to the skin.
Inhalation : Prolonged exposure will cause fluoride poisoning and irritation to the gastrointestinal tract.
Ingestion : Swallowing large amounts will cause fluoride poisoning and it can be fatal.
Primary route of exposure : Skin and eye contacts, inhalation and ingestion are the primary routes of exposure to this product.

The above listed potential effects of overexposure are base on actual data, results of studies performed upon similar compositions, component data, and/or expert review of the product. Please refer to section 11 for detailed toxicology information.

SECTION 4 : FIRST-AID MEASURES

Eyes contact :	Flush eyes gently with water for at least 15 to 20 minutes while holding eyelids apart, occasionally lifting upper and lower lids. Seek medical attention.
Skin contact :	In case of contact, immediately flush skin with plenty of water for at least 15 to 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If an irritation persists, repeat cleaning on several occasion and require a medical aid.
Inhalation :	Remove immediately in fresh air. Seek medical attention at once.
Swallowing :	Rinse mouth with water. Give large quantities of water or milk. Do not induce vomiting. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended. Seek medical attention.
Notes to physicians :	Treat according to person's condition and specifics of exposure.

SECTION 5 : FIRE-FIGHTING MEASURES

T.D.G. Flammable class :	Not applicable
Flammability :	None
Flash point, closed cup (°C) :	Not applicable
Explosive limit temperature (°C) :	Not applicable
Autoignition temperature (°C) :	Not applicable
Lower flammable limit (% by vol.) :	Not applicable
Higher flammable limit (% by vol.) :	Not applicable
Sensitivity to static discharge:	Not applicable
Sensitivity to impact :	Not applicalble
Hazardous Products of Combustion :	May form: carbon, phophorus, sulfur and nitrogen oxides, hydrogen fluoride and ammonia.
Fire and Explosion Hazards :	Not available
Extinguishing Media :	Regular foam, water, carbon dioxide.
Fire Fighting Instructions :	Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure. Refer to the personal protective equipment section of this MSDS.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

General information :	Use proper personal protective equipment as indicated in Section 8. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.
Small spill :	Clean area as appropriate since the product.
Large Spill :	Stop leak if without risk. Provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Disposal measures :

See Section 13.

SECTION 7 : HANDLING AND STORAGE

Handling : Avoid contact with skin and eyes. For external use only. Use good personal hygiene practices. Wash hands before eating, drinking, or using toilet facilities. Promptly remove soiled clothing and wash before reuse. Shower after work using plenty of soap and water.

Storage: Keep in original tightly closed containers..

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection : Wear safety glasses with side shields (or goggles).

Skin Protection : Wear resistant gloves. Glove materials may include polyvinyl chloride (PVC), neoprene or rubber.

Footwear : Wear adequate working boots.

Clothing : Wear adequate working clothes.

Respiratory Protections : Wear acid inorganic cartridges respirator.

Engineering Controls : Provide sufficient mechanical (general and/or local exhaust) ventilation.

Other : Eye bath and safety shower.

Exposure limits:

<u>Ingredient</u>	<u>CAS</u>	<u>TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
Sulfuric acid	7664-93-9	Not available	Not available	2140mg/kg ⁽¹⁾
Phosphoric acid	7664-38-2	Not available	Not available	1530mg/kg ⁽¹⁾ 2740mg/kg ⁽²⁾
Bifluorure d'ammonium	68603-42-9	Not available	Not available	Pas disponible
Ethanol, 2-Butoxy-	111-76-3	Not available	Not available	1900-3300mg/kg ⁽¹⁾ 1400 mg/kg ⁽²⁾

(1) Oral – Rat

(2) Cutaneous - Rabbit

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

State :	Liquid	Appearance :	Clear
Color :	Colorless	Odor :	Acid
Vapor pressure (mm Hg) :	Not available	pH (10%) :	3
Specific vapor density (Air=1) :	Not available	Specific gravity (25°C) :	1.07
Evaporation rate (Water=1) :	Not available	Boiling point (°C) :	Not available
Solubility in water (% p/p) :	Miscible	Melting point (°C) :	Not available
Solubility in ethanol :	Not available	Viscosity (cps) :	Not available
Volatiles (% p/p) :	83	Molecular weight :	Not applicable
Partition coefficient water/oil :	Not available	Chemical formula :	Not applicable

SECTION 10 : STABILITY AND REACTIVITY

Hazardous polymerization : Will not occur.
Hazardous decomposition : May form: carbon, phosphorus, sulfur and nitrogen oxides, hydrogen fluoride and ammonia.
Chemical stability : Stable under normal conditions.
Materials to avoid : Strong oxidizing agents and strong base.

SECTION 11 : TOXICOLOGICAL INFORMATION

Effects of chronic exposure : Not available
Carcinogenicity : Not available
Reproductive toxicity : Not available
Teratogenicity : Not available
Mutagenicity : Not available
Primary Route(s) of Entry : Skin contact, eye contact, ingestion and inhalation.

SECTION 12 : ECOLOGICAL INFORMATION

Environmental toxicity information : This material has not been tested for environmental effects.
BOD₅ : Not available
COD : Not available

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Management Information : Dispose in accordance with municipal, provincial and federal regulations.

SECTION 14 : TRANSPORT INFORMATION

US DOT Information : 8 (9.2)
TDG Classification : 8 (9.2)
UN/NA Number : UN1830
Packaging group : II
Shipping name : CORROSIF LIQUIDS N.O.S. (PHOSPHORIC ACID, SULFURIC ACID, AMMONIUM BIFLUORIDE)

SECTION 15 : REGULATORY INFORMATION

Canada (WHMIS) : DIA, E
CPR compliance : This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all information required by *Controlled Products Regulations*.

SECTION 16 : OTHER INFORMATION

Emission date: November 03th, 2009
Prepared by : Hygienex Laboratory inc.
Revised by : Hamid Housni, Chemist
Phone : (418) 522-2332

Disclaimer :

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. Last page