



MATERIAL SAFETY DATA SHEETS

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : **SILVERWAX 9 GLASS CLEANER AND OTHER SURFACES**
 Chemical name and synonyms : Not applicable (mixture)
 Manufacturer : Laboratoire Hygienex Inc. Supplier : Same
 Address : 6400 Zephirin-Paquet Address : Same
 Québec (Québec)
 Canada G2C 0M3
 Telephone : 1-418-522-2332 Telephone : Same
 Emergency phone (CANUTEC) : (613) 996-6666
 Issue by : Laboratoire Hygienex Inc.
 Product use : Glass Cleaner
 (Industrial/Institutional)

| HMIS Rating : | |
|-----------------------|---|
| Health : | 1 |
| Flammability : | 1 |
| Reactivity : | 0 |
| Personal protection : | B |

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient</u> | <u>CAS</u> | <u>% w/w</u> |
|--------------------|------------|--------------|
| 2-Butoxy-1-ethanol | 111-76-2 | 1 - 5 |
| 2-Propanol | 67-63-0 | 1 - 5 |

Exposure limit informations: see Section 8

SECTION 3 : HAZARDS IDENTIFICATION

Eyes contact : May cause irritation.
 Skin contact : May cause skin irritation.
 Inhalation : May cause superior respiratory tract irritation, headache, nausea, vomiting and vertigo.
 Oral : May cause a gastrointestinal illness.

Effects of repeated overexposure

Skin : Prolonged or repeated exposure may cause skin irritation, even skin dryness.
 Inhalation : None known.
 Ingestion : Swallowing large amounts may cause a gastrointestinal irritation.

Primary route of exposure : Skin contact, eye contact, 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

| | |
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| Eyes contact : | Flush eyes gently with water for at least 15 minutes while holding eyelids apart. Occasionnaly lifting upper and lower lids. Get medical attention at once. |
| Skin contact : | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Seek medical attention. |
| Inhalation : | Remove in fresh air. |
| Swallowing : | Give water. Induce vomiting if possible and if the person is conscious. 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 : | Non controled |
| Flammability : | Flammable liquid |
| Flash point, closed cup (°C) : | Not available |
| Explosive limit temperature (°C) : | Not available |
| Autoignition temperature (°C) : | Not available |
| Lower flammable limit (% by vol.) : | Not available |
| Higher flammable limit (% by vol.) : | Not available |
| Sensitivity to static discharge: | Not available |
| Sensitivity to impact : | None |
| Hazardous Products of Combustion : | May form: carbon and nitrogen oxide. |
| Fire and Explosion Hazards : | Vapours form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from handling point. |
| 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 : | Remove source of heat, sparks or flames. Absorb residue or small spills with absorbent material. |
| Large Spill : | Stop leak if without risk. Provide adequate ventilation and protective equipment. Remove sources of heat, sparks or flames. Spill should be collected in suitable containers or absorbed on a suitable absorbent material for subsequent disposal. |
| Disposal measures : | See Section 13. |

SECTION 7 : HANDLING AND STORAGE

Handling : Keep away from heat, sparks, and open flame. Keep container closed when not use. Use adequate ventilation. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. 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. Keep away from heat, sparks, and open flame.

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 : None required under normal operation conditions.

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(4h, rat)</u> | <u>LD₅₀</u> |
|--------------------|------------|------------|---------------------------------|--|
| 2-Butoxy-1-ethanol | 111-76-2 | 150ppm | 450ppm | 300mg/kg ⁽²⁾ |
| 2-Propanol | 67-63-0 | 500ppm | 16970ppm | 3.6g/kg ⁽¹⁾ 16.4ml/kg ⁽³⁾ |

(1) Oral – rat

(2) Oral – mouse

(3) Cutaneous - rabbit

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--|---------------|----------------------------------|----------------|
| State : | Liquid | Appearance : | Clear |
| Color : | Green | Odor : | Typical |
| Vapor pressure (mm Hg) : | Not available | pH : | 9.4 |
| Specific vapor density (Air=1) : | Not available | Specific gravity (25°C) : | 0.99 |
| Evaporation rate (Water=1) : | Not available | Boiling point (°C) : | 100 |
| Solubility in water (% p/p) : | Miscible | Melting point (°C) : | Not available |
| Solubility in ethanol : | Miscible | Viscosity (cps) : | Not available |
| Volatiles (% p/p) : | 100 | 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: Nitrogen and carbon oxides
Chemical stability : Stable under normal conditions.
Materials to avoid : Strong oxidizing agents and strong acids.

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 :
TDG Classification :
UN/NA Number :
Packaging group :
Shipping name :

SECTION 15 : REGULATORY INFORMATION

Canada (WHMIS) : D2B
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: May 2th, 2013
Prepared by : Hygienex Laboratory inc.
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