

## Silverwax 270

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Silverwax 270
<b>Other Means of Identification</b>	ACID CLEANER AND BRIGHTENER FOR ALUMINUM AND STAINLESS STEEL
<b>Recommended Use</b>	Used to deoxidise aluminum components.
<b>Manufacturer</b>	Laboratoire Hygienex Inc. 6400 Zéphirin-Paquet Québec, Québec, G2C-0M3 (418) 522-2332 www.hygienex.com
<b>Emergency Phone No.</b>	CANUTEC, (613) 996-6666
<b>SDS No.</b>	270

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Corrosive to metals - Category 1; Acute toxicity (Oral) - Category 5; Acute toxicity (Dermal) - Category 4; Acute toxicity (Inhalation) - Category 5; Skin corrosion - Category 1; Serious eye damage - Category 1

#### Label Elements



Signal Word:

Danger

Hazard Statement(s):

H290 May be corrosive to metals.

H303 + H313 + H333 May be harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

Precautionary Statement(s):

Prevention:

P260 Do not breathe dusts or mists.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Product Identifier: Silverwax 270 - Ver. 1

SDS No.: 270

Date of Preparation: janvier 23, 2018

Date of Last Revision: janvier 25, 2018

Page 01 of 06

Storage: P406 Store in corrosive resistant container with a resistant inner liner.  
Disposal: P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Sulfuric acid	7664-93-9	10-20	EC 231-639-5	
Ammonium bifluoride	1341-49-7	1-5		
Phosphoric acid solutions	7664-38-2	1-5	EC 231-633-2	

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor if you feel unwell.

##### Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of water. DO NOT INTERRUPT FLUSHING. If it can be done safely, continue flushing during transport to hospital. Get medical advice or attention if you feel unwell or are concerned. Call a Poison Centre or doctor if you feel unwell.

##### Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

##### Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Call a Poison Centre or doctor if you feel unwell.

##### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

#### Most Important Symptoms and Effects, Acute and Delayed

Can cause severe irritation of the nose and throat. Can cause severe lung injury. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Use extinguishing agent which is the most appropriate to extinguish surrounding fire.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Remove or isolate incompatible materials as well as other hazardous materials. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.

Product Identifier: Silverwax 270 - Ver. 1

SDS No.: 270

Date of Preparation: janvier 23, 2018

Date of Last Revision: janvier 25, 2018

Page 02 of 06

## Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

## Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Cover the spill surface with the appropriate type of foam to reduce the release of vapour. Place used absorbent into suitable, covered, labelled containers for disposal. Remove or recover liquid using pumps or vacuum equipment. Dike and recover contaminated water for appropriate disposal. Get expert advice before treating the spilled product with other chemicals to make it less hazardous. Store recovered product in suitable containers that are: covered, tightly-covered, corrosion-resistant.

## Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Obtain special instructions before use. Do not breathe in this product. Avoid breathing in this product. Prevent all skin contact. Do not get in eyes. Do not swallow. Only use where there is adequate ventilation. Avoid generating vapours or mists. Avoid release to the environment. Avoid heating that will increase the amount of vapours. If product is transferred to another container, ensure new container is suitable for the product. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty. Never reuse empty containers, even if they appear to be clean.

### Conditions for Safe Storage

Store in an area that is: cool, well-ventilated. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Have escape-type respiratory protective equipment readily available, in case of leaks or spills. Comply with all applicable health and safety regulations, fire and building codes.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Appropriate Engineering Controls

General ventilation is usually adequate. Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use a corrosion-resistant exhaust ventilation system separate from other ventilation systems. Exhaust directly to the outside, taking any necessary precautions for environmental protection. Provide eyewash in work area, if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Wear a full facepiece NIOSH approved air-purifying respirator with an acid gas cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Clear.
<b>Odour</b>	Acidic
<b>pH</b>	2.8
<b>Relative Density (water = 1)</b>	1.13
<b>Solubility</b>	Very soluble in water
<b>Other Information</b>	
<b>Physical State</b>	Liquid

Product Identifier: Silverwax 270 - Ver. 1

SDS No.: 270

Date of Preparation: janvier 23, 2018

Date of Last Revision: janvier 25, 2018

Page 03 of 06

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

May intensify fire strong oxidizer.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Reacts in the presence of alkaline conditions (high pH), heat.

### Conditions to Avoid

High temperatures.

### Incompatible Materials

Metals (e.g. aluminum).

### Hazardous Decomposition Products

Corrosive chemicals; irritating chemicals.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ammonium bifluoride	638 mg/kg (rat) (4-hour exposure)	130 mg/kg (rat) (4-hour exposure)	
Sulfuric acid	255 mg/m <sup>3</sup> (rat) (4-hour exposure)	2140 mg/kg (rat) (4-hour exposure)	
Phosphoric acid solutions	213 mg/m <sup>3</sup> (rat) (4-hour exposure)	1530 mg/kg (rat) (4-hour exposure)	2740 mg/kg (rabbit) (4-hour exposure)

### Skin Corrosion/Irritation

Contact can cause pain, redness, burns, and blistering. Permanent scarring can result.

### Serious Eye Damage/Irritation

Causes serious eye irritation based on skin irritation information. May cause serious eye damage based on information for closely related materials. Causes serious eye damage based on skin corrosion information. The vapour also irritates the eyes.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Corrosive effect on the skin and mucous membranes.

#### Skin Absorption

This product is absorbed by the respiratory tract and the digestive tract.

#### Ingestion

No information was located.

### Aspiration Hazard

No information was located.

### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

No information was located.

### Reproductive Toxicity

#### Development of Offspring

No information was located.

Product Identifier: Silverwax 270 - Ver. 1

SDS No.: 270

Date of Preparation: janvier 23, 2018

Date of Last Revision: janvier 25, 2018

Page 04 of 06

**Sexual Function and Fertility**

No information was located.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by WHMIS.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. Treat waste in an approved waste disposal facility. Empty containers retain product residue. Follow label warnings even if container appears to be empty. Do not reuse empty containers. Dispose of or recycle empty containers through an approved waste management facility.

**SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	3266	LIQUIDE INORGANIQUE CORROSIF, ACIDE, N.S.A. (Ammonium bifluoride, acide sulfurique, acide phosphorique)	Classe 8	II

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**Proof of Dangerous Goods Classification**

**Date of Classification** janvier 22, 2018

**SECTION 15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations**

This section is not required by WHMIS.

**SECTION 16. OTHER INFORMATION**

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**Key to Abbreviations** CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

**References** <https://echa.europa.eu/fr/>  
<http://www.csst.qc.ca/Pages/index.aspx>.  
Security data sheets of the suppliers.

**Additional Information** The preceding indications are based on our current knowledge but do not represent a guaranty in terms of the product's proprieties and do not establish a legally valid contractual relationship. The manipulation and use conditions of the product go beyond the rep's control. It is the user's

Product Identifier: Silverwax 270 - Ver. 1

SDS No.: 270

Date of Preparation: janvier 23, 2018

Date of Last Revision: janvier 25, 2018

Page 05 of 06

responsibility to evaluate all available information before using the product, no matter the type of use, and to respect all local, provincial and federal legislations and laws.

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Product Identifier: Silverwax 270 - Ver. 1  
Date of Preparation: janvier 23, 2018  
Date of Last Revision: janvier 25, 2018

SDS No.: 270

Page 06 of 06