

### Section 1. Identification

**Product identifier :** Lav-i-tre

**Other means of identification :** Codes : 71016, 71019, 71020

**Recommended use and restrictions on use :** Glass cleaner

**Supplier identifier :** Les Produits Sanitaires Lépine inc.  
1105 Bersimis  
Chicoutimi, Qc  
G7K 1A4  
Phone : 418-545-0794  
[www.produitslepine.com](http://www.produitslepine.com)

**Emergency telephone number :** CANUTEC : +1-613-996-6666 or \*666 (cell phone)  
24/7

### Section 2. Hazard identification

**Hazard classification of substance or mixture :** ACUTE TOXICITY – INHALATION – Category 4  
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE – Category 2

#### Label elements

**Symbol(s) :**



**Signal word :**

Danger

**Hazard statement(s) :**

Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.

#### Precautionary statement(s)

**Prevention :**

Do not breathe vapors or spray. Use only outdoors or in well-ventilated area. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response :**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice or call a POISON CENTER if you feel unwell.

**Storage :**

Not applicable

**Disposal :**

Dispose of contents and container in accordance with local regulations.

### Section 3. Composition/information on ingredients

**Substance/material :** Mixture

Chemical name	Common name	% (w/w)	CAS number
Ethylene glycol butyl ether	2-Butoxyethanol	1 – 5	111-76-2

Based on current knowledge of the supplier and in the concentrations applicable, no other ingredients present are classified as hazardous to health or the environment therefore would require reporting in this section.  
Occupational exposure limits, where available, are listed in section 8.

### Section 4. First-aid measures

#### First-aid measures by route of exposure :

<b>Eye contact :</b>	Rinse cautiously with water for several minutes, lifting the eyelids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Inhalation :</b>	Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
<b>Skin contact :</b>	Wash skin with plenty of water. If skin irritation occurs: Get medical advice.
<b>Ingestion :</b>	Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor or poison center.

#### Most important symptoms and effects (acute or delayed)

##### Potential acute health effects

<b>Eye contact :</b>	May cause slight eye irritation.
<b>Inhalation :</b>	Harmful if inhaled.
<b>Skin contact :</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Ingestion :</b>	May cause irritations to the mouth, throat and gastrointestinal tract.

##### Signs/symptoms of overexposure

<b>Eye contact :</b>	Adverse symptoms may include: pain, tearing, conjunctivitis.
<b>Inhalation :</b>	Adverse symptoms may include: irritation to the nose, respiratory system and lungs.
<b>Skin contact :</b>	Adverse symptoms may include irritation, dermatitis.
<b>Ingestion :</b>	Adverse symptoms may include: abdominal pain, diarrhea, nausea, vomiting.

#### Immediate medical attention and special treatment, if necessary

<b>Note to physician :</b>	Symptomatic treatment required. Contact the poison treatment specialist immediately if large amounts have been ingested or inhaled.
<b>Specific treatments :</b>	No special treatment.
<b>Protection of first responders :</b>	See section 8.

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media :</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media :</b>	None known.

#### Specific hazard arising from the hazardous product :

<b>Hazardous combustion products :</b>	If heated to decomposition, releases carbon dioxide, carbon monoxide, nitrogen oxides and ammoniac.
<b>Precautions for fire-fighters :</b>	No special measures are required.
<b>Protective equipment for fire-fighters :</b>	It is important that firefighters wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a positive pressure face shield.

### Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures :**

Use appropriate personal protective equipment : respiratory protection, protective clothing, gloves and eye protection (see Section 8)

**Methods and materials for containment and cleaning up :**

Contain spill for neutralization, in order to prevent environmental contamination. Keep away from sewers or waterways. The small quantities must be removed, wiped and used, when it's possible. For general purpose cleaning, or drain in the sanitary sewers if the municipal and provincial regulations permit it. Recover the abundant quantities with vermiculite or all other absorbent, and eliminate as industrial waste. If the product flowed in the nature inform the municipal, provincial and federal authorities as required by law.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures :**

Put on appropriate personal protective equipment (see Section 8).

**Advice on general hygiene at work :**

Refer to Section 8 for information on hygiene measures.

**Conditions for safe storage (including incompatible materials) :**

Store in accordance with local regulations.

### Section 8. Exposure controls/Personal protection

#### Control parameters

**Occupational exposure limits :**

Name of product or ingredient	Exposure limits - ACGIH	Exposure limits - OSHA	Immediately dangerous to life or health - IDLH
Ethylene glycol butyl ether	20 ppm – TWA 97 mg/m <sup>3</sup> – TWA	Not available	Not available

**Appropriate engineering controls :**

General mechanical ventilation.

#### Individual protection measures

**Hygiene measures :**

Observe good personal hygiene measure.

**Eye / face protection :**

Wear eye protection such as protective glasses.

**Skin protection :**

**Hand protection :**

Wear chemical resistant gloves.

**Body protection :**

None required in normal use.

**Other skin protection :**

None required in normal use.

**Respiratory protection :**

None required in normal use.

### Section 9. Physical and chemical properties

**Appearance :**

Blue liquid

**Odour :**

Lemon

**Odour threshold :**

Not available

**pH :**

10,2 ± 0,4

**Melting point/Freezing point :**

± 0 °C

**Initial boiling point :**

± 100 °C

**Flash point :**

Closed cup : >93,3°C (>199,9°F)

**Evaporation rate :**

Not available

**Flammability (solids and gases) :**

Not applicable

**Lower and upper flammability/explosive limit :**

Not available

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Vapour pressure :	Not available
Vapour density :	Not available
Relative density :	1,00± 0,01g/ml
Solubility :	Easily soluble in the following materials : cold and hot water
Partition coefficient n-octanol/water :	Not available
Auto-ignition temperature :	Not available
Decomposition temperature :	Not available
Viscosity :	Not available

### Section 10. Stability and reactivity

Reactivity :	No specific test data to the reactivity available for this product or its ingredients.
Chemical stability :	The product is stable.
Possibility of hazardous reactions :	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid :	No specific data.
Incompatible materials :	None known
Hazardous decomposition products :	Thermal decomposition may produce carbon dioxide, carbon monoxide, nitrogen oxides and ammoniac.

### Section 11. Toxicological information

#### Information on toxicological effects

##### Toxicological data :

Name of product or ingredient	Result	Species	Dosage	Exposure	Observation
Ethylene glycol butyl ether	LD50 Oral	Rat	560 mg/kg	-	-
	LD50 Dermal	Rabbit	400 mg/kg	-	-
	LC50 Inhalation	Rat	450 ppm	4 hours	-

Sensitization :	No data available
Mutagenicity :	No data available
Carcinogenicity :	No data available
Toxicity to reproduction :	No data available
Teratogenicity :	No data available
Systemic toxicity for some target organs – single exposure :	No data available
Target organ toxicity – repeated exposure :	Ethylene glycol butyl ether: LAOEL 69 mg / kg (Rat, oral, target organ: liver) and studies on laboratory animals have demonstrated changes in blood associated with hemolytic anemia.

**Route of exposure :** Skin contact, eye contact, inhalation, ingestion.

#### Potential acute health effects

Eye contact :	May cause slight eye irritation.
Inhalation :	Harmful if inhaled.
Skin contact :	Prolonged or repeated contact may dry skin and cause irritation.
Ingestion :	May cause irritations to the mouth, throat and gastrointestinal tract.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :	Adverse symptoms may include: pain, tearing, conjunctivitis.
Inhalation :	Adverse symptoms may include: irritation to the nose, respiratory system and lungs.
Skin contact :	Adverse symptoms may include irritation, dermatitis.

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**Ingestion :** Adverse symptoms may include: abdominal pain, diarrhea, nausea, vomiting.

### Delayed and immediate effects, and chronic effects from short-term and long-term exposure

**Short-term exposure :** No important effects or critical dangers known.

**Long-term exposure :** No important effects or critical dangers known.

**Potential chronic health effects :** No important effects or critical dangers known.

### Numerical value of toxicity

#### Acute toxicity estimates

Route of exposure	ATE value
Oral	>5000 mg/kg
Dermal	>5000 mg/kg
Inhalation	>5000 mg/l

## Section 12. Ecological information

### Ecotoxicity :

Name	Results	Species	Exposure
Not available	Not available	Not available	Not available

**Persistence and degradability :** Not available

**Bioaccumulative potential :** Not available

**Mobility in soil :** Not available

**Other adverse effects :** Not available

## Section 13. Disposal considerations

**Disposal methods :** It is important to minimize or avoid generation of waste wherever possible. Dispose of contents and container in accordance with all applicable local, state, and national regulations.

## Section 14. Transport information

**UN number :** Not applicable

**UN proper shipping name :** Not applicable

**Packing group :** Not applicable

**Environmental hazards :** Not applicable

**Special precautions :** Transport with local users : Always transport in containers that are correct and secure. Ensure that persons transporting the product know what to do in case of accident or spillage.

## Section 15. Regulatory information

The product classification and SDS were developed in accordance with the HPR.

### Section 16. Other information

#### Procedure used to prepare the classification

Classification	Justification
ACUTE TOXICITY – INHALATION – Category 4	Calculation method
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE – Category 2	Calculation method

**Prepared on :** 2017-06-09

**Edition :** 01

**Prepared by :** The research and development department of Produits Sanitaires Lépine inc.

**Legend of abbreviations :**

- ATE = Acute toxicity estimate
- SDS = Safety Data Sheet
- UN = United Nations
- HPR = Hazardous Products Regulations
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- TDG : Transportation of Dangerous Goods
- CAS : Chemical Abstract Services
- TWA : Time-Weighted Average
- STEL : Short-Term Exposure Limit
- IDLH : Immediately dangerous to life or health
- LC : Lethal Concentration
- LD : Lethal Dose
- EC : Effective Concentration

#### **Notice to reader :**

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