

#### Section 1. Identification

Product identifier: Fosfo

Other means of identification: Codes: 291741, 610332

Recommended use and restrictions on

use:

Liquid descaler

**Supplier identifier:** Les Produits Sanitaires Lépine inc.

1105 Bersimis Chicoutimi, Qc G7K 1A4

Phone: 418-545-0794 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:

CORROSIVE TO METALS – Category 1 SKIN CORROSION – Category 1

EYE DAMAGE - Category 1

Label elements

Symbol(s):

Signal word: Danger

Hazard statement(s): Causes severe skin burns, serious eye and respiratory tract damage. May

be corrosive to metals.

Precautionary statement(s)

Prevention: Keep only in original container. Do not breathe vapours or spray. Wear

protective gloves and eye protection. Wash hand thoroughly after handling.

Absorb spillage to prevent material damage.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or

hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or a doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER or a doctor.

Storage: Store locked up.

**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
Phosphoric acid		30 – 60	7664-38-2
Citric acid		5 – 10	77-92-9

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:

Eye contact: Rinse cautiously with water for several minutes, lifting the eyelids

occasionally. Remove contact lenses, if present and easy to do. Continue

rinsing. Call a poison center or doctor immediately.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a

poison center or doctor immediately.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse. If skin irritation occurs: Get

medical advice

**Ingestion:** Rinse mouth with water. Do NOT induce vomiting. 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

Eye contact : Causes serious eye damage.

**Inhalation:** At high concentrations, may cause irritation to the nose and throat.

**Skin contact**: Causes severe skin burns.

**Ingestion:** May cause burns to the mouth, throat and gastrointestinal tract.

Signs/symptoms of overexposure

Eye contact: Adverse symptoms may include: pain, tearing, conjunctivitis, corneal

lesion, permanent blindness.

Inhalation: Adverse symptoms may include: irritation to the nose, cough, shortness

of breath, headache, confusion.

Skin contact: Adverse symptoms may include: pain or irritation, dermatitis, burning or

destruction of tissue.

Ingestion: Adverse symptoms may include: abdominal pain, diarrhea, nausea,

vomiting.

Immediate medical attention and special treatment, if necessary

Note to physician: Symptomatic treatment required. Contact the poison treatment specialist

immediately if large amounts have been ingested or inhaled.

**Specific treatments:** No special treatment.

**Protection of first responders :** See section 8.

See toxicological information (section 11)

## Section 5. Fire-fighting measures

Extinguishing media

**Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Specific hazard arising from the hazardous

product:

No specific risk of fire or explosion.

Hazardous combustion products: If heated to decomposition, releases phosphorus oxides and reacts

with water or vapor to produce heat and toxic and corrosive vapors.

**Precautions for fire-fighters :** No special measures are required.

Protective equipment for fire-fighters: 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
Phosphoric acid	1 mg/m³ – TWA 3 mg/m³ – STEL	1 mg/m³ – TWA 3 mg/m³ – STEL	1000 mg/m <sup>3</sup>
Citric acid	Not available	Not available	Not available

Appropriate engineering controls: General mechanical ventilation.

Individual protection measures

Observe good personal hygiene measure. Hygiene measures: Wear eye protection such as protective glasses. Eye / face protection:

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: Colorless liquid Odour: Odorless Odour threshold: Not available

pH: < 1 ±0°C Melting point/Freezing point : Initial boiling point:: ± 100 °C

Closed cup: >93,3°C (>199,9°F) Flash point:

Evaporation rate: Not available Flammability (solids and gases): Not applicable

www.produitslepine.com

Page 3 of 6



Lower and upper flammability/explosive limit : Not available Vapour pressure: Not available Vapour density: Not available Relative density:  $1,29 \pm 0,01g/ml$ 

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

No specific test data to the reactivity available for this product or its ingredients. Reactivity:

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: Reactive or incompatible with the following materials: strong bases, oxidizing

agents and reducers, bleach, metals.

Hazardous decomposition

products:

If heated to decomposition, releases phosphorus oxides and reacts with water or

vapor to produce heat and toxic and corrosive vapors.

#### Section 11. Toxicological information

#### Information on toxicological effects

#### Toxicological data:

Name of product or ingredient	Result	Species	Dosage	Exposure	Observation
Phosphoric acid	LD50 Oral	Rat	1530 mg/kg	-	-
	LD50 Dermal	Rabbit	2730 mg/kg	-	-
Citric acid	LD50 Oral	Rat	3000 mg/kg	-	-
	LD50 Dermal	Rat	>2000 mg/kg	-	-

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 No data available

- single exposure :

Target organ toxicity - repeated

No data available

exposure:

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

Potential acute health effects

Eye contact: Causes serious eye damage.

Inhalation: At high concentrations, may cause irritation to the nose and throat.

Skin contact: Causes severe skin burns.

Ingestion: May cause burns 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, corneal lesion,

permanent blindness.

www.produitslepine.com

Page 4 of 6



Inhalation: Adverse symptoms may include: irritation to the nose, cough, shortness of

breath, headache, confusion.

Skin contact: Adverse symptoms may include: pain or irritation, dermatitis, burning or

destruction of tissue.

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	>2000 mg/kg
Dermal	>3000 mg/kg

# Section 12. Ecological information

#### **Ecotoxicity:**

Name	Results	Species	Exposure
Phosphoric acid	LC50 3-3,5 mg/L	Gambusia affinis	96 hours

Persistence and degradability:

Bioaccumulative potential:

Not available

Mobility in soil:

Not available

Other adverse effects: The product may affect the acidity of the water, with the potential

for adverse effects on aquatic organisms.

#### 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: UN1760

UN proper shipping name : CORROSIVE LIQUID N.O.S. (phosphoric acid)

Packing group: 8
Environmental hazards: III

Special precautions: <u>Transport with local users</u>: 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
CORROSIVE TO METALS – Category 1	Bringing principles
SKIN CORROSION – Category 1	Calculation method
EYE DAMAGE – Category 1	Calculation method

<u>Prepared on:</u> 2017-09-07

Edition: 01

<u>Prepared by:</u> 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 Sercices 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:

To the best of our knowledge, the information contained in this document is accurate. However, neither the above supplier nor any of its branches can assume any responsibility whatsoever with regard to the accuracy or completeness of the information contained in this document. It is the exclusive responsibility of the user to determine the approval of the materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described in this document, we can not guarantee that there are no other hazards.