Safety Data Sheet
PURGO

Section 1. Identification

Product identifier : Purgo

Other means of identification : Codes : 2000497, 2000498, 2000540

Recommended use and restrictions on use : Concentrated degreaser

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 : SKIN CORROSION – Category 1
EYE DAMAGE – Category 1
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE – Category 1

Label elements

Symbol(s) :

Signal word : Danger

Hazard statement(s) : Causes severe skin burns, serious eye damage. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Prevention : Do not breathe vapours or spray. Wear protective gloves and eye protection. Wash hand thoroughly after handling. Do not eat, drink or smoke when using this product.

Response : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or a doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Get medical advice if you feel unwell. 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
Ethylene glycol butyl ether	2-butoxyethanol	5 – 10	111-76-2
Sodium metasilicate		3 – 7	6834-92-0
Tetrasodium ethylenediamine tetraacetate	EDTA	1 – 5	64-02-8
Alcohol ethoxylate C9-C11		1 – 5	68439-46-3

The actual concentration or concentration range is withheld as a trade secret.
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 :	Wash with plenty of water for several minutes. Take off contaminated clothing and wash it 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, mists can irritate the upper respiratory tract.
Skin contact :	Causes severe skin burns. Contains 2-butoxyethanol which can be absorbed through the skin.
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 and respiratory system.
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 carbon oxides.
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.

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Toll free : **1 800 463-9149**

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 locked up, away from incompatible materials. (See section 10).

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^3 – TWA	Not available	Not available
Sodium metasilicate	None	None	None
Tetrasodium ethylenediamine tetraacetate	None	None	None
Alcohol ethoxylate C9-C11	Not available	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 : Orange liquid

Odour : Butyl

Odour threshold : Not available

pH : > 13

Melting point/Freezing point : ± 0 °C

Initial boiling point : : ± 100 °C

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

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Evaporation rate :	Not available
Flammability (solids and gases) :	Not applicable
Lower and upper flammability/explosive limit :	Not available
Vapour pressure :	Not available
Vapour density :	Not available
Relative density :	1,04 ± 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 :	Reactive or incompatible with the following materials: acids, strong oxidizers, aluminum, zinc, tin, copper and their alloys.
Hazardous decomposition products :	Can react with aluminum, zinc, tin, copper and their alloys to form an explosive hydrogen gas.

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 LD50 Dermal LC50 Inhalation	Rat Rabbit Rat	560 mg/kg 400 mg/kg 450 ppm	- - 4 hours	- - -
Sodium metasilicate	LD50 Oral LD50 Dermal LC50 Inhalation	Rat Rat Rat	1152 mg/kg >5000 mg/kg >2,06 mg/L	- - 4 hours	- - -
Tetrasodium ethylenediamine tetraacetate	LD50 Oral LD50 Dermal	Rat Rabbit	3030 mg/kg >5000 mg/kg	- -	- -
Alcohol ethoxylate C9-C11	LD50 Oral LD50 Dermal	Rat Rabbit	>2000 mg/kg >2000 mg/kg	- -	- -

Sensitization :	No data available
Mutagenicity :	No data available
Carcinogenicity :	Ethylene glycol butyl ether : ACGIH: A3 – Animal carcinogen IARC: Group 3 – Nor classifiable as to Carcinogenicity in humans.
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.

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

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : At high concentrations, mists can irritate the upper respiratory tract.

Skin contact : Causes severe skin burns. Contains 2-butoxyethanol which can be absorbed through the skin.

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.

Inhalation : Adverse symptoms may include: irritation to the nose and respiratory system.

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	>3000 mg/kg
Dermal	>3000 mg/kg
Inhalation	4 500 ppm

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.

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Section 14. Transport information

UN number :	UN1760
UN proper shipping name :	CORROSIVE LIQUID N.O.S. (sodium metasilicate)
Environmental hazards :	8
Packing group :	II
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
SKIN CORROSION – Category 1	Calculation method
EYE DAMAGE – Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE – Category 1	Calculation method

Prepared on :	2019-02-21
Edition :	03
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:

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 cannot guarantee that there are no other hazards.

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