

Section 1. Identification

Product identifier : Puisseance +

Other means of identification : Codes : 70480, 70481, 70483

Recommended use and restrictions on use : Ready to use powerfull degreaser

Supplier identifier : Les Produits Sanitaires Lépine inc.
1105 Bersimis
Chicoutimi, Qc
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Phone : 418-545-0794
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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 IRRITATION – Category 2
EYE DAMAGE – Category 1

Label elements

Symbol(s) :



Signal word :

Danger

Hazard statement(s) :

Causes skin irritation and serious eye damage.

Precautionary statement(s)

Prevention :

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

Response :

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice. 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 :

Not applicable

Disposal :

Not applicable

Section 3. Composition/information on ingredients

Substance/material : Mixture

Chemical name	Common name	% (w/w)	CAS number
Dipropylene glycol monomethyl ether	MEA	5 – 10	34590-94-8
Alcohol ethoxylate C9-C11		1 – 5	68439-46-3
Monoethanolamine		1 – 4	141-43-5

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 :	May cause irritation to the nose and respiratory system.
Skin contact :	Causes skin irritation.
Ingestion :	May cause irritation to the mouth and throat.

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.
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.
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Hazardous combustion products :	If heated to decomposition, releases carbon oxides, nitrogen oxides and ammonia.
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
Dipropylene glycol monomethyl ether	150 ppm – STEL 100 ppm - TWA	150 ppm – STEL 100 ppm - TWA	600 ppm
Alcohol ethoxylate C9-C11	Not available	Not available	Not available
Monoethanolamine	6 ppm – STEL 3 ppm - TWA	6 ppm – STEL 3 ppm - TWA	30 ppm

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 :

Characteristic

Odour threshold :

Not available

pH :

11,5 ± 0,5

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
Vapour pressure :	Not available
Vapour density :	Not available
Relative density :	1,01 ± 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 and strong oxidizers.
Hazardous decomposition products :	If heated to decomposition, releases carbon oxides, nitrogen oxides and ammonia. At high temperatures, it 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
Dipropylene glycol monomethyl ether	LD50 Oral	Rat	>5000 mg/kg	-	-
	LD50 Dermal	Rabbit	9510 mg/kg	-	-
Alcohol ethoxylate C9-C11	LD50 Oral	Rat	1152 mg/kg	-	-
	LD50 Dermal	Rat	>5000 mg/kg	-	-
	LC50 Inhalation	Rat	>2,06 mg/L	4 hours	-
Monoethanolamine	LD50 Oral	Rat	1089 mg/kg	-	-
	LD50 Dermal	Rabbit	1000 mg/kg	-	-
	LC50 inhalation	Rat	11 mg/L	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 :	No data available
Route of exposure :	Skin contact, eye contact, inhalation, ingestion.

Potential acute health effects

Eye contact :	Causes serious eye damage.
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Inhalation : May cause irritation to the nose and respiratory system.

Skin contact : Causes skin irritation.

Ingestion : May cause irritation to the mouth and throat.

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.

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

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
SKIN IRRITATION – Category 2	Calculation method
EYE DAMAGE – Category 1	Calculation method

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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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