Section 1. Identification

Product identifier

Product Identity CLEANER 100 LF

Other means of identification Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

Water-based industrial cleaner

Details of the supplier of the safety data sheet

Company Name

Chem-Ecol Ltd.
640 Victoria St.
Cobourg. Ontario K9A 5H5

Emergency

24 hour Emergency Telephone No. 1-800-263-3939

Customer Service: Chem-Ecol Ltd. 905-372-2251

Email Address SDS@e360s.ca

Section 2. Hazard(s) identification

This SDS is aligned with the Workplace Hazardous Materials Information System (WHMIS) and with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Classification of the substance or mixture

Reproductive toxicity, category 1B;H360FD	May damage fertility. May damage the unborn child.
Aquatic toxicity (acute), category 2;H401	Toxic to aquatic life.
Aquatic toxicity (chronic), category 1;H410	Very toxic to aquatic life with long lasting effects.

Label elements



Danger

H360FD* May damage fertility. May damage the unborn child.
H401 Toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

[Prevention]

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection, and face protection.

[Response]

P308+313 IF exposed or concerned: Get medical advice or attention.
P391 Collect spillage.

[Storage]

P405 Store locked up.

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

127087-87-0	**Nonylphenol polyethylene glycol ether**	**Endocrine disruptor**

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Nonylphenol polyethylene glycol ether **CAS Number: 127087-87-0** **Synonyms: Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-,branched**	**3 - 7**	**Aquatic toxicity (acute), category 1;H400** **Aquatic toxicity (chronic), category 1;H410**	**Chronic M-Factor: 10** **----**
pentasodium triphosphate **CAS Number: 7758-29-4** **Synonyms: STPP-LIGHT**	**3 - 7**	**Skin corrosion/irritation category 2;H315** **Serious eye damage / eye irritation, category 2;H319** **Specific target organ toxicity, Single exposure category 3;H335**	**----**
Diethylene glycol monobutyl ether **CAS Number: 112-34-5** **Synonyms: No available information**	**1 - 5**	**Flammable Liquid 4;H227** **Acute toxicity(dermal), category 5;H313** **Serious eye damage / eye irritation, category 2A;H319** **Specific target organ toxicity, Single exposure category 3;H335**	**----**
Borates, tetra, sodium salts, pentahydrate **CAS Number: 12179-04-3** **Synonyms: Boric acid(H2B4O7), disodium salt, pentahydrate, Disodium tetraborate pentahydrate**	**1 - 5**	**Reproductive toxicity, category 1B;H360FD**	**----**

The actual concentration or concentration range is withheld as a trade secret.
*PBT/vPvB - PBT, vPvM or vPvB-substance.
The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available. Reproductive or genetic defect hazard. Treat symptomatically. See section 2 for further details.

Skin Causes mild skin irritation.

Section 5. Fire-fighting measures

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Keep from freezing

Incompatible materials: No available information

See section 2 for further details. - [Storage]

Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
112-34-5	Diethylene glycol monobutyl ether	ACGIH	TWA: 10 ppm (IFV) Inhalable Fraction and vapour
		Alberta	No Established Limit
		British Columbia	(I) (I)
		Manitoba	10 ppm TWA (inhalable fraction and vapour)
		New Brunswick	No Established Limit
		Newfoundland and Labrador	10 ppm TWA (inhalable fraction and vapour)
		Nova Scotia	10 ppm TWA (inhalable fraction and vapour)
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	10 ppm TWA (inhalable fraction and vapour)
		Prince Edward Island	10 ppm TWA (inhalable fraction and vapour)
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
7758-29-4	pentasodium triphosphate	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit

		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
12179-04-3	Borates, tetra, sodium salts, pentahydrate	ACGIH	TWA: 2 mg/m^3 (I) Inhalable STEL: 6 mg/m^3 (I) Inhalable
		Alberta	1 mg/m^3 TWA (listed under Borates, tetra, sodium salts) 3 ppm STEL (listed under Borates, tetra, sodium salts)
		British Columbia	2 mg/m^3 6 mg/m^3
		Manitoba	2 mg/m^3 TWA (inhalable particulate matter, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable particulate matter, listed under Borate compounds, inorganic)
		New Brunswick	1 mg/m^3 TWA
		Newfoundland and Labrador	2 mg/m^3 TWA (inhalable particulate matter, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable particulate matter, listed under Borate compounds, inorganic)
		Nova Scotia	2 mg/m^3 TWA (inhalable particulate matter, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable particulate matter, listed under Borate compounds, inorganic)
		Northwest Territories	2 mg/m^3 TWA (inhalable fraction, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable fraction, listed under Borate compounds, inorganic)
		Nunavut	2 mg/m^3 TWA (inhalable fraction, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable fraction, listed under Borate compounds, inorganic)
		Ontario	2 mg/m^3 TWA (inhalable, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable, listed under Borate compounds, inorganic)
		Prince Edward Island	2 mg/m^3 TWA (inhalable particulate matter, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable particulate matter, listed under Borate compounds, inorganic)
		Quebec	1 mg/m^3 TWAEV
		Saskatchewan	2 mg/m^3 TWA (inhalable fraction, listed under Borate compounds, inorganic) 6 mg/m^3 STEL (inhalable fraction, listed under Borate compounds, inorganic)
		Yukon	No Established Limit
127087-87-0	Nonylphenol polyethylene glycol ether	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit

		Saskatchewan	No Established Limit
		Yukon	No Established Limit

Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Protective safety glasses recommended

Skin Avoid skin contact. Protective gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Color	Colorless
Odor	Mild
Odor threshold	No available information
Melting point / freezing point	N/A
Initial boiling point and boiling range	>100 ℃
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Flash Point	℉ ℃, Test method: (Open/Close cup) - N/A
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	9.5
Kinematic viscosity	No available information
Solubility in Water	N/A
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapour pressure (Pa)	No available information
Relative Density	1.10
Vapour Density	No available information
Evaporation rate (Ether = 1)	< 1
Oxidising properties	No available information
Explosive properties	No available information
Other information	

No other relevant information.

Section 10. Stability and reactivity

Reactivity
Hazardous Polymerization will not occur.
Chemical stability
Stable under normal circumstances.
Possibility of hazardous reactions
No available information
Conditions to avoid
Avoid high temperatures and contact with incompatible material
Incompatible materials
No available information
Hazardous decomposition products
No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Nonylphenol polyethylene glycol ether - (127087-87-0)	No data available.	No data available.	No data available.	No data available.	No data available.
pentasodium triphosphate - (7758-29-4)	No data available.	> 4,640.00, Rabbit - Category: NA	No data available.	No data available.	No data available.
Diethylene glycol monobutyl ether - (112-34-5)	2,410.00, Mouse - Category: 5	2,764.00, Rabbit - Category: 5	No data available.	No data available.	No data available.
Borates, tetra, sodium salts, pentahydrate - (12179-04-3)	No data available.	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
112-34-5	Diethylene glycol monobutyl ether	IARC	No
		ACGIH	No Established Limit
7758-29-4	pentasodium triphosphate	IARC	No
		ACGIH	No Established Limit
12179-04-3	Borates, tetra, sodium salts, pentahydrate	IARC	No
		ACGIH	A4
127087-87-0	Nonylphenol polyethylene glycol ether	IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description

Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	1B	May damage fertility. May damage the unborn child.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry:
Inhalation, ingestion, skin contact, and skin absorption.
Symptoms and effects, both acute and delayed:
No specific symptom data available.
Reproductive or genetic defect hazard. Treat symptomatically.
Skin Causes mild skin irritation.

Section 12. Ecological information

Toxicity
Very toxic to aquatic life with long lasting effects.
Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Nonylphenol polyethylene glycol ether - (127087-87-0)	No data available.	No data available.	No data available.
pentasodium triphosphate - (7758-29-4)	1,850.00, Fish	100.00, Daphnia magna	No data available.
Diethylene glycol monobutyl ether - (112-34-5)	No data available.	No data available.	No data available.
Borates, tetra, sodium salts, pentahydrate - (12179-04-3)	74.00, Limanda limanda	242.00, Daphnia magna	No data available.

Persistence and degradability
There is no data available on the preparation itself.
Bioaccumulative potential
No available information
Mobility in soil
No available information
Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No available information

Section 13. Disposal considerations

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information

Not regulated for packages under 5L (1.3 gallons) or 5.0 kg (11 lbs).



	TDG (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (CHEMICAL NAME)	Environmentally hazardous substance, liquid, n.o.s. (CHEMICAL NAME)	Environmentally hazardous substance, liquid, n.o.s. (CHEMICAL NAME)
Transport hazard class(es)	**Class:** 9 **Sub Class:** Not Applicable	**Class:** 9 **Sub Class:** Not Applicable	**Class:** 9 **Sub Class:** Not Applicable
Packing group	Not Applicable	Not Applicable	Not Applicable

Environmental hazards

IMDG Marine Pollutant: Yes; (Nonylphenol polyethylene glycol ether)

Special precautions for user

No available information

Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria Hazardous Products Regulations (SOR/2015-17 amended 2022-12-15) and the SDS contains all of the information required by those regulations.

Canadian Domestic Substance List (DSL):

Borates, tetra, sodium salts, pentahydrate
Diethylene glycol monobutyl ether
Nonylphenol polyethylene glycol ether
pentasodium triphosphate

Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated
Polyoxyethylene dinonylphenol
Water

Canadian Non-Domestic Substance List (NDSL):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Section 16. Other information

Revision Date 20 October, 2026

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H227 Combustible liquid.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

End of Document