



**Safety Data Sheet
CLEANER 100LFC**

**Revision Date:
29 October, 2025**

Section 1. Identification

Product identifier

Product Identity

CLEANER 100 LFC

Other means of identification

CLEANER 100 LFC

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 (chronic), category

3;H412

Harmful to aquatic life with long lasting effects.

Label elements



Danger

H360FD* May damage fertility. May damage the unborn child.

H412 Harmful 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.

[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	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 2;H319 Aquatic toxicity (chronic), category 2;H411	----
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	Serious eye damage / eye irritation, category 2;H319 Combustible Liquid;H227 Acute toxicity(dermal), category 5;H313 Specific target organ toxicity, Single exposure category 3;H335 Specific target organ toxicity, Single exposure category 3;H336	----
Acetone CAS Number: 67-64-1 Synonyms: Propanone, Dimethyl ketone, Dimethylformaldehyde, 2-Propanone	1 - 5	Flammable Liquid, category 2;H225 Serious eye damage / eye irritation, category 2;H319 Specific target organ toxicity, Single exposure category 3;H336	----
Borates, tetra, sodium salts, pentahydrate CAS Number: 12179-04-3 Synonyms: No available information	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, CO₂, 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
67-64-1	Acetone	ACGIH	250 ppm 500 ppm
		Alberta	500 ppm TWA; 1200 mg/m ³ TWA 750 ppm STEL; 1800 mg/m ³ STEL
		British Columbia	250 ppm TWA 500 ppm STEL
		Manitoba	250 ppm TWA 500 ppm STEL
		New Brunswick	500 ppm TWA; 1188 mg/m ³ TWA 750 ppm STEL; 1782 mg/m ³ STEL
		Newfoundland and Labrador	250 ppm TWA 500 ppm STEL
		Nova Scotia	250 ppm TWA 500 ppm STEL
		Northwest Territories	500 ppm TWA 750 ppm STEL
		Nunavut	500 ppm TWA 750 ppm STEL
		Ontario	250 ppm TWA 500 ppm STEL
		Prince Edward Island	250 ppm TWA 500 ppm STEL
		Quebec	500 ppm TWAEV; 1190 mg/m ³ TWAEV 1000 ppm STEV; 2380 mg/m ³ STEV
		Saskatchewan	500 ppm TWA 750 ppm STEL
		Yukon	1000 ppm TWA; 2400 mg/m ³ TWA 1250 ppm STEL; 3000 mg/m ³ STEL
112-34-5	Diethylene glycol monobutyl ether	ACGIH	10 ppm (IFV) Inhalable Fraction and vapour
		Alberta	No Established Limit
		British Columbia	No Established Limit
		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	2 mg/m ³ (I) Inhalable 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 TWA (inhalable, listed under Borate compounds, inorganic) 6 mg/m ³ STEL (inhalable, listed under Borate compounds, inorganic)
		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

127087-87-0	Nonylphenol polyethylene glycol ether	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
		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

Odour

Citrus

Odour threshold

No available information

Melting point / freezing point

N/A

Initial boiling point and boiling range

>100 °C

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	°F °C, Test method: (Open/Close cup) - N/A
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	9.5
Viscosity (cSt)	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)	5,530.00, Mouse - Category: NA	No data available.	No data available.	No data available.	No data available.
Acetone - (67-64-1)	5,800.00, Rat - Category: NA	7,426.00, Rabbit - Category: NA	76.00, Rat - Category: NA	50.10, Rat - Category: NA	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
67-64-1	Acetone	IARC	No
		ACGIH	A4
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

Harmful to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

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)	1,300.00, Lepomis macrochirus	101.00, Daphnia magna	101.00, Desmodesmus subspicatus
Acetone - (67-64-1)	8,120.00, Pimephales promelas	8,800.00, Daphnia pulex	7,000.00, Pseudokirchneriella subcapitata
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

Classification Method: Classified as per Part 2, Sections 2.1-2.8 of the Transportation of Dangerous Goods Regulations.

	TDG (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	Not Regulated	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
Transport hazard class(es)	Class: Not Applicable Sub Class: Not Applicable	Class: Not Applicable Sub Class: Not Applicable	Class: Not Applicable Sub Class: Not Applicable

Packing group	Not Applicable	Not Applicable	Not Applicable
Environmental hazards	IMDG Marine Pollutant: No;		
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):

Acetone
 Citral
 Citrus Terpenes
 Diethylene glycol monobutyl ether
 Ethanol
 Linalool (ex bois de rose, synthetic)
 Nonylphenol polyethylene glycol ether
 pentasodium triphosphate
 Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated
 Polyoxyethylene dinonylphenol
 Propane
 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 29 October, 2025

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:

H225 Highly flammable liquid and vapour.

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.

H336 May cause drowsiness and dizziness.

H360 May damage fertility or the unborn child.

H411 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