



Section 1. Identification

Product identifier

Product Identity

CHEMSOL 210

Other means of identification

Not Applicable

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

Soluble Oil Metalworking Fluid

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

Skin corrosion/irritation category
2;H315

Causes skin irritation.

Serious eye damage / eye irritation,
category 2A;H319

Causes serious eye irritation.

Skin sensitizer category 1;H317

May cause an allergic skin reaction.

Reproductive toxicity, category
2;H361D

Suspected of damaging the unborn child.

Aquatic toxicity (acute), category
3;H402

Harmful to aquatic life.

Aquatic toxicity (chronic), category
2;H411

Toxic to aquatic life with long lasting effects.

Label elements



Warning

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H361d Suspected of damaging the unborn child.
- H402 Harmful to aquatic life.
- H411 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.
- P261 Avoid breathing dust, fume, gas, mist, vapours, spray.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, eye protection, and face protection.

[Response]

- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+313 IF exposed or concerned: Get medical advice or attention.
- P333+313 If skin irritation or a rash occurs: Get medical advice or attention.
- P337+313 If eye irritation persists: Get medical advice or attention.
- P362+364 Take off contaminated clothing and wash it before reuse.
- 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
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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
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil- unspecified CAS Number: 64742-52-5 Synonyms: Distillate (petroleum) hydrotreated heavy naphthenic, Polymer Binders and Adhesive	45 - 70	Not Classified	----
9-Octadecenoic acid (Z)-, 2-ethylhexyl ester CAS Number: 26399-02-0 Synonyms: 2-ethyl hexyl oleate, 2-ethylhexyl oleate, Permavis-T	7 - 13	Not Classified	----
2-methylpentane-2,4-diol CAS Number: 107-41-5 Synonyms: 2,4-Pentanediol, 2-methyl-, Glycol hexylene	1 - 5	Serious eye damage / eye irritation, category 2;H319 Skin corrosion/irritation category 2;H315 Reproductive toxicity, category 2;H361D	----
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono- c12-15-alkyl ethers, phosphates CAS Number: 68071-35-2 Synonyms: No available information	1 - 5	Serious eye damage / eye irritation, category 2;H319 Skin corrosion/irritation category 2;H315	----
Nonylphenol polyethylene glycol ether CAS Number: 127087-87-0 Synonyms: Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)- .omega.-hydroxy-,branched	1 - 5	Aquatic toxicity (acute), category 1;H400 Aquatic toxicity (chronic), category 1;H410	Chronic M- Factor: 10 ----
Tall oil rosin CAS Number: 8052-10-6 Synonyms: Tall-oil rosin	0.5 - 1.5	Skin sensitizer category 1;H317	----
1,3,5-Tris(2-hydroxyethyl)hexahydro-1,3,5-triazine CAS Number: 4719-04-4 Synonyms: Hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine, Hexahydro-1,3,5-tris(hydroxyethyl)triazine	0.5 - 1.5	Acute toxicity(oral), category 4;H302 Skin sensitizer category 1;H317 C ≥ 0.1 % Acute toxicity(inhalation), category 2;H330 Eye Dam. 2;H319 Specific target organ toxicity, repeated exposure category 1;H372	----
Potassium hydroxide. CAS Number: 1310-58-3 Synonyms: Caustic potash	0.5 - 1.5	Acute toxicity(oral), category 4;H302 Serious eye damage / eye irritation, category 1;H318: C>= 2% Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %	----

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.
Eyes	Causes serious eye irritation.
Skin	May cause an allergic skin reaction. Causes 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: Oxides of Carbon

Avoid breathing dust, fume, gas, mist, vapours, spray.

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

Incompatible materials: Oxidizers or Reducing Agents

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
107-41-5	2-methylpentane-2,4-diol	ACGIH	TWA: 25 ppm (V) vapour STEL: 50 ppm (V) vapour, 10 mg/m ³ (I, H)
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m ³ STEL (inhalable particulate matter, aerosol only)
		New Brunswick	No Established Limit
		Newfoundland and Labrador	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m ³ STEL (inhalable particulate matter, aerosol only)
		Nova Scotia	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m ³ STEL (inhalable particulate matter, aerosol only)
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m ³ STEL (inhalable particulate matter, aerosol only)
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
1310-58-3	Potassium hydroxide.	ACGIH	TWA C 2 mg/m ³
		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
4719-04-4	1,3,5-Tris(2-hydroxyethyl)hexahydro-1,3,5-triazine	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
8052-10-6	Tall oil rosin	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
26399-02-0	9-Octadecenoic acid (Z)-, 2-ethylhexyl ester	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
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil-unspecified	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
68071-35-2	Poly(oxy-1,2-ethanediy), .alpha.-hydro-.omega.-hydroxy-, mono-c12-15-alkyl ethers, phosphates	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
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

Contains mineral oil. The exposure limits for oil mist are 5 mg/m³ OSHA PEL and 5 mg/m³ ACGIH.

Exposure controls

Respiratory

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

Eyes	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
Skin	Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.
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	Brown
Odor	Mild Oil Odor
Odor threshold	No available information
Melting point / freezing point	No available information
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	> 150 °C, Test method: (Open cup)
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	No available information
Viscosity (cSt)	No available information
Solubility in Water	Soluble in water
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapour pressure (Pa)	< 1 MM_HG
Relative Density	1.00
Vapour Density	> 1
Evaporation rate (Ether = 1)	No available information
Oxidising properties	No available information
Explosive properties	No available information
Other information	
DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)	

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

Keep out of heat > 140F and cold < 30F.

Incompatible materials

Oxidizers or Reducing Agents

Hazardous decomposition products

Oxides of Carbon

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
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil-unspecified - (64742-52-5)	> 5,000.00, Rat - Category: NA	No data available.	No data available.	5.70, Rat - Category: NA	No data available.
9-Octadecenoic acid (Z)-, 2-ethylhexyl ester - (26399-02-0)	No data available.	No data available.	No data available.	No data available.	No data available.
2-methylpentane-2,4-diol - (107-41-5)	No data available.	No data available.	No data available.	No data available.	No data available.
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-c12-15-alkyl ethers, phosphates - (68071-35-2)	No data available.	No data available.	No data available.	No data available.	No data available.
Nonylphenol polyethylene glycol ether - (127087-87-0)	No data available.	No data available.	No data available.	No data available.	No data available.
Tall oil rosin - (8052-10-6)	No data available.	No data available.	No data available.	No data available.	No data available.
1,3,5-Tris(2-hydroxyethyl)hexahydro-1,3,5-triazine - (4719-04-4)	1,000.00, Rat - Category: 4	> 4,000.00, Rat - Category: NA	No data available.	No data available.	No data available.
Potassium hydroxide. - (1310-58-3)	388.00, Rat - Category: 4	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
107-41-5	2-methylpentane-2,4-diol	IARC	No
		ACGIH	No Established Limit
1310-58-3	Potassium hydroxide.	IARC	No
		ACGIH	No Established Limit
4719-04-4		IARC	No

	1,3,5-Tris(2-hydroxyethyl)hexahydro-1,3,5-triazine	ACGIH	No Established Limit
8052-10-6	Tall oil rosin	IARC	No
		ACGIH	No Established Limit
26399-02-0	9-Octadecenoic acid (Z)-, 2-ethylhexyl ester	IARC	No
		ACGIH	No Established Limit
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil-unspecified	IARC	No
		ACGIH	No Established Limit
68071-35-2	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-c12-15-alkyl ethers, phosphates	IARC	No
		ACGIH	No Established Limit
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		2	Causes skin irritation.
Serious eye damage/irritation		2A	Causes serious eye irritation.
Respiratory sensitization		---	Not Applicable
Skin sensitization		1	May cause an allergic skin reaction.
Germ cell mutagenicity		---	Not Applicable
Carcinogenicity		---	Not Applicable
Reproductive toxicity		2	Suspected of damaging 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.

Eyes Causes serious eye irritation.

Skin May cause an allergic skin reaction. Causes skin irritation.

Section 12. Ecological information

Toxicity

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

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil-unspecified - (64742-52-5)	5,000.00, Oncorhynchus mykiss	1,000.00, Daphnia magna	1,000.00, Scenedesmus subspicatus
9-Octadecenoic acid (Z)-, 2-ethylhexyl ester - (26399-02-0)	No data available.	No data available.	No data available.
2-methylpentane-2,4-diol - (107-41-5)	9,910.00, Gambusia affinia	5,410.00, Daphnia magna	430.00, Pseudokirchneriella subcapitata
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-c12-15-alkyl ethers, phosphates - (68071-35-2)	No data available.	No data available.	No data available.
Nonylphenol polyethylene glycol ether - (127087-87-0)	No data available.	No data available.	No data available.
Tall oil rosin - (8052-10-6)	No data available.	No data available.	No data available.
1,3,5-Tris(2-hydroxyethyl)hexahydro-1,3,5-triazine - (4719-04-4)	240.04, Scophthalmus maximus	60.67,	6.60, Skeletonema costatum
Potassium hydroxide. - (1310-58-3)	No data available.	No data available.	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).

{TransPict1} {TransPict2} {TransPict3} {TransPict4} {TransPict5} {TransPict6} {TransPict7} {TransPict8} {Tr

	TDG (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s., (CHEMICAL NAME)	Environmentally hazardous substances, liquid, n.o.s., (CHEMICAL NAME)	Environmentally hazardous substances, 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

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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.

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