



Section 1. Identification

Product identifier

Product Identity

CHEMGUARD WS-1

Other means of identification

Not Applicable

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

Rust preventative

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
1B;H314

Causes severe skin burns and eye damage.

Serious eye damage / eye irritation,
category 1;H318

Causes serious eye damage.

Reproductive toxicity, category
1B;H360FD

May damage fertility. May damage the unborn child.

Specific target organ toxicity, Single
exposure category 3;H335

May cause respiratory irritation.

Label elements



Danger

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

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

[Prevention]

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P233 Keep container tightly closed.

P260 Do not breathe dust, fume, mist, vapours or spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

[Response]

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P310 Immediately call a POISON CENTER, doctor or physician.

P312 Call a POISON CENTER, doctor or physician if you feel unwell.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

[Storage]

P403+233 Store in a well ventilated place. Keep container tightly closed.

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.

This product contains no endocrine disrupting chemicals.

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
Dipropylene glycol CAS Number: 25265-71-8 Synonyms: oxydipropanol	10 - 30	Not Classified	----
Boric Acid CAS Number: 10043-35-3 Synonyms: No available information	7 - 13	Reproductive toxicity, category 1B;H360FD	----
Ethanolamine CAS Number: 141-43-5 Synonyms: No available information	7 - 13	Acute toxicity(inhalation), category 4;H332 Acute toxicity(dermal), category 4;H312 Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Specific target organ toxicity, Single exposure category 3;H335 > 5% Aquatic toxicity (chronic), category 3;H412	----
2-amino-2-methylpropanol CAS Number: 124-68-5 Synonyms: No available information	7 - 13	Serious eye damage / eye irritation, category 2;H319 Skin corrosion/irritation category 2;H315 Aquatic toxicity (chronic), category 3;H412	----
Citric acid CAS Number: 77-92-9 Synonyms: 2-HYDROXY 1, 2, 3 PROPANE TRICARBOXYLIC ACID	1 - 5	Serious eye damage / eye irritation, category 2;H319 Specific target organ toxicity, Single exposure category 3;H335	----
Undecanedioic acid CAS Number: 1852-04-6 Synonyms: No available information	0.5 - 1.5	Serious eye damage / eye irritation, category 2;H319	----

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.

Inhalation	May cause respiratory irritation.
Eyes	Causes serious eye damage.
Skin	Causes severe skin burns and eye damage.

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.

Keep container tightly closed.

Do not breathe dust, fume, mist, vapours or 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: 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
77-92-9	Citric acid	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
124-68-5	2-amino-2-methylpropanol	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
141-43-5	Ethanalamine	ACGIH	TWA: 3 ppm 6 ppm
		Alberta	3 ppm TWA; 7.5 mg/m ³ TWA 6 ppm STEL; 15 mg/m ³ STEL
		British Columbia	3 ppm TWA 6 ppm STEL
		Manitoba	3 ppm TWA 6 ppm STEL
		New Brunswick	3 ppm TWA; 7.5 mg/m ³ TWA 6 ppm STEL; 15 mg/m ³ STEL
		Newfoundland and Labrador	3 ppm TWA 6 ppm STEL
		Nova Scotia	3 ppm TWA 6 ppm STEL
		Northwest Territories	3 ppm TWA 6 ppm STEL
		Nunavut	3 ppm TWA 6 ppm STEL
		Ontario	3 ppm TWA 6 ppm STEL

		Prince Edward Island	3 ppm TWA 6 ppm STEL
		Quebec	3 ppm TWAEV; 7.5 mg/m ³ TWAEV 6 ppm STEV; 15 mg/m ³ STEV
		Saskatchewan	3 ppm TWA 6 ppm STEL
		Yukon	3 ppm TWA; 6 mg/m ³ TWA 6 ppm STEL; 12 mg/m ³ STEL
1852-04-6	Undecanedioic acid	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
10043-35-3	Boric Acid	ACGIH	TWA: 2 mg/m ³ (I) Inhalable STEL: 6 mg/m ³ (I) Inhalable
		Alberta	No Established Limit
		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	No Established Limit
		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	No Established Limit
		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
25265-71-8	Dipropylene glycol	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 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	light yellow
Odor	Amine 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	> 93 °C
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	10.4

Viscosity (cSt)	No available information
Solubility in Water	Soluble in water
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapour pressure (Pa)	No available information
Relative Density	No available information
Vapour Density	No available information
Evaporation rate (Ether = 1)	No available information
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
Dipropylene glycol - (25265-71-8)	> 5,000.00, Rat - Category: NA	> 5,010.00, Rabbit - Category: NA	No data available.	> 2.34, Rat - Category: NA	No data available.
Boric Acid - (10043-35-3)	3,450.00, Rat - Category: 5	> 2,000.00, Rabbit - Category: NA	No data available.	> 2.03, Rat - Category: NA	No data available.

Ethanolamine - (141-43-5)	1,515.00, Rat - Category: 4	2,504.00, Rabbit - Category: 5	No data available.	No data available.	No data available.
2-amino-2-methylpropanol - (124-68-5)	2,900.00, Rat - Category: 5	> 2,000.00, Rabbit - Category: NA	No data available.	No data available.	No data available.
Citric acid - (77-92-9)	No data available.	> 2,000.00, Rat - Category: NA	No data available.	No data available.	No data available.
Undecanedioic acid - (1852-04-6)	No data available.	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
77-92-9	Citric acid	IARC	No
		ACGIH	No Established Limit
124-68-5	2-amino-2-methylpropanol	IARC	No
		ACGIH	No Established Limit
141-43-5	Ethanolamine	IARC	No
		ACGIH	No Established Limit
1852-04-6	Undecanedioic acid	IARC	No
		ACGIH	No Established Limit
10043-35-3	Boric Acid	IARC	No
		ACGIH	A4
25265-71-8	Dipropylene glycol	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	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
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-single exposure	3	May cause respiratory irritation.
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.

Inhalation May cause respiratory irritation.

Eyes Causes serious eye damage.

Skin

Causes severe skin burns and eye damage.

Section 12. Ecological information

Toxicity

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
Dipropylene glycol - (25265-71-8)	46,500.00, Pimephales promelas	> 100.00, Daphnia magna	> 100.00, Desmodesmus subspicatus
Boric Acid - (10043-35-3)	79.70, Pimephales promelas	91.00, Ceriodaphnia dubia	66.00, Phaeodactylum tricornutum
Ethanolamine - (141-43-5)	349.00, Cyprinus carpio	65.00, Daphnia magna	2.80, Pseudokirchneriella subcapitata
2-amino-2-methylpropanol - (124-68-5)	190.00, Lepomis macrochirus	179.00, Crangon crangon	402.00, Scenedesmus sp.
Citric acid - (77-92-9)	600.00, Leuciscus idus	2,083.00, Daphnia magna	No data available.
Undecanedioic acid - (1852-04-6)	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).

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	UN1760	UN1760	UN1760
UN proper shipping name	Corrosive liquids, n.o.s., (CHEMICAL NAME)	Corrosive liquids, n.o.s., (CHEMICAL NAME)	Corrosive liquids, n.o.s., (CHEMICAL NAME)

Transport hazard class(es)	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable
Packing group	III	III	III

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):

- 2-amino-2-methylpropanol
- Azelaic acid
- Boric Acid
- Citric acid
- Diethanolamine
- Dodecanedioic acid
- Ethanolamine
- Dipropylene glycol
- Undecanedioic acid
- 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 10 April, 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:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

H412 Harmful 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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