

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

1 Identification

1.1 Product identifier

Trade name **Clean Line Miracle Wash**

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

Relevant identified uses
Vehicle water spot remover
Professional use
Industrial use
Consumer use (private households)

Uses advised against
Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

HS code
3402.41.90.

1.3 Details of the supplier of the safety data sheet

B-Line Tire & Auto Supply Inc.
32 Rayborn Crescent
St. Albert, AB Canada
T8N-4B1

1-888-458-8055
International 1-780-458-7619
<https://www.bline.ca>

1.4 Emergency telephone number

Emergency information service
24 hour emergency number
CANUTEC: 1-613-996-6666

2 Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labeling

- Signal word **danger**

- Pictograms

GHS05



- Hazard statements
H318

Causes serious eye damage.

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

- Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

- Hazardous ingredients for labelling oxalic acid, Alcohols, C9-11 ethoxylated

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

3 Composition/ Information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
oxalic acid	CAS No 144-62-7	5 - < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Eye Dam. 1 / H318
Alcohols, C9-11 ethoxylated	CAS No 68439-46-3	1 - < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Eye Dam. 1 / H318
Sulphuric acid	CAS No 7664-93-9	0.1 - < 1	Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318
hydrogen fluoride	CAS No 7664-39-3 RTECS No MW7875000	0.1 - < 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 Skin Corr. 1 / H314 Eye Dam. 1 / H318

Hazardous ingredients, Consideration of other advice

This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.

Eksakt prosentandel av ingrediensens holdes tilbake som en handelshemmelighet.

Remarks

For full text of abbreviations: see SECTION 16.

4 First-aid measures

4.1 Description of first-aid measures

General notes

Immediately seek medical attention in any cases of exposure. Risk of hypocalcemia (possible life threatening lowering of serum calcium). May cause severe chemical burns which may not be immediately apparent. Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Following skin contact

Follow water rinsing by massaging with calcium gluconate (2.5%) gel. Continue massaging with gel while seeking medical attention.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Irrigate with calcium gluconate (1.0%) solution. Seek immediate medical attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If patient is conscious and able to swallow give oral calcium solutions or calcium based antacids. Seek immediate medical attention. .

4.2 Most important symptoms and effects, both acute and delayed

Risk of hypocalcemia (possible life threatening lowering of serum calcium). May cause severe chemical burns which may not be immediately apparent.

4.3 Indication of any immediate medical attention and special treatment needed

none

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

7 Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

- Handling of incompatible substances or mixtures

Do not mix with alkali.

- Keep away from

Caustic solutions

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of the effects

Protect against external exposure, such as
frost

7.3 Specific end use(s)

See section 16 for a general overview.

8 Exposure controls/ Personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	oxalic acid	144-62-7	OEL (AB)		1		2				OHS Code
CA	oxalic acid	144-62-7	OEL (ON-MoL)		1		2				MoL
CA	oxalic acid	144-62-7	PEV/VEA		1		2				Regulation OHS
CA	Oxalic acid, anhydrous	144-62-7	OEL (BC)		1		2				"BC Regulation"
CA	hydrogen fluoride	7664-39-3	OEL (AB)	0.5	0.4			2	1.6	F	OHS Code
CA	hydrogen fluoride	7664-39-3	PEV/VEA					3	2.6	F	Regulation OHS
CA	hydrogen fluoride	7664-39-3	OEL (BC)					2		F, H	"BC Regulation"

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	hydrogen fluoride	7664-39-3	OEL (ON-MoL)	0.5				2		F, H	MoL
CA	sulfuric acid	7664-93-9	OEL (AB)		1		3				OHS Code
CA	sulfuric acid	7664-93-9	PEV/VEA		1		3				Regulation OHS
CA	sulfuric acid	7664-93-9	OEL (ON-MoL)		0.2					t	MoL
CA	sulfuric acid	7664-93-9	OEL (BC)		0.2					t, mist	"BC Regulation"

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

F calculated as F (fluorine)

H absorbed through the skin

mist as mists

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

t thoracic fraction

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
oxalic acid	144-62-7	DNEL	3.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
oxalic acid	144-62-7	DNEL	0.88 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	2,080 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	294 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sulphuric acid	7664-93-9	DNEL	0.05 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Sulphuric acid	7664-93-9	DNEL	0.1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
hydrogen fluoride	7664-39-3	DNEL	1.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
hydrogen fluoride	7664-39-3	DNEL	2.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
hydrogen fluoride	7664-39-3	DNEL	1.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
hydrogen fluoride	7664-39-3	DNEL	2.5 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
oxalic acid	144-62-7	PNEC	1,550 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
oxalic acid	144-62-7	PNEC	1.6 mg/l	aquatic organisms	water	intermittent release
oxalic acid	144-62-7	PNEC	0.16 mg/l	aquatic organisms	freshwater	short-term (single instance)
oxalic acid	144-62-7	PNEC	0.016 mg/l	aquatic organisms	marine water	short-term (single instance)
oxalic acid	144-62-7	PNEC	1,550 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1.4 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	14 mg/kg	benthic organisms	sediments	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	14 mg/kg	pelagic organisms	sediments	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.014 mg/l	aquatic organisms	water	intermittent release
Sulphuric acid	7664-93-9	PNEC	0.003 mg/l	aquatic organisms	freshwater	short-term (single instance)
Sulphuric acid	7664-93-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Sulphuric acid	7664-93-9	PNEC	8.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sulphuric acid	7664-93-9	PNEC	0.002 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sulphuric acid	7664-93-9	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
hydrogen fluoride	7664-39-3	PNEC	51 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
hydrogen fluoride	7664-39-3	PNEC	0.89 mg/l	aquatic organisms	freshwater	short-term (single instance)
hydrogen fluoride	7664-39-3	PNEC	0.089 mg/l	aquatic organisms	marine water	short-term (single instance)
hydrogen fluoride	7664-39-3	PNEC	51 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
hydrogen fluoride	7664-39-3	PNEC	3.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
hydrogen fluoride	7664-39-3	PNEC	0.34 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
hydrogen fluoride	7664-39-3	PNEC	11 mg/kg	terrestrial organisms	soil	short-term (single instance)

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	colorless
Odor	sharp
Melting point/freezing point	<-20 °C at 1,013 hPa
Boiling point or initial boiling point and boiling range	100 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not determined closed cup
Auto-ignition temperature	311 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	<1 (25 °C) (acid)
Kinematic viscosity	not determined

Solubility(ies)

Water solubility	miscible in any proportion
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Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Vapor pressure	32 hPa at 25 °C
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Density and/or relative density

Density	1 – 1.2 g/cm ³
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

Miscibility	Completely miscible with water.
Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment: 300 °C)

10 Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

11 Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
oxalic acid	144-62-7	oral	500 mg/kg
Alcohols, C9-11 ethoxylated	68439-46-3	oral	1,200 mg/kg
Alcohols, C9-11 ethoxylated	68439-46-3	dermal	2,000 mg/kg
Sulphuric acid	7664-93-9	inhalation: vapour	3 mg/l/4h
Sulphuric acid	7664-93-9	inhalation: dust/mist	0.85 mg/l/4h
hydrogen fluoride	7664-39-3	oral	<50 mg/kg
hydrogen fluoride	7664-39-3	dermal	5 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

12 Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
oxalic acid	144-62-7	LC50	325 mg/l	fish	48 h
oxalic acid	144-62-7	EC50	162 mg/l	aquatic invertebrates	48 h
oxalic acid	144-62-7	ErC50	>36 - <38 mg/l	algae	24 h
Alcohols, C9-11 ethoxylated	68439-46-3	LC50	8.5 mg/l	fathead minnow	96 h
Alcohols, C9-11 ethoxylated	68439-46-3	EC50	5.3 mg/l	daphnia magna	48 h
Alcohols, C9-11 ethoxylated	68439-46-3	ErC50	1 - 10 mg/l	algae	96 h
Sulphuric acid	7664-93-9	LC50	<28 mg/l	fish	96 h

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sulphuric acid	7664-93-9	EC50	>100 mg/l	aquatic invertebrates	48 h
Sulphuric acid	7664-93-9	ErC50	>100 mg/l	algae	72 h
hydrogen fluoride	7664-39-3	EC50	48 mg/l	aquatic invertebrates	96 h

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
hydrogen fluoride	7664-39-3	EC50	2,930 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

13 Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

14 Transport information

14.1 UN number	not subject to transport regulations
14.2 UN proper shipping name	not relevant
14.3 Transport hazard class(es)	none
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport information - National regulations - Additional information (UN RTDG)

Not subject to transport regulations: UN RTDG

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

15 Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities				
Name of substance	CAS No	Notes	Reportable quantity (pounds)	Threshold planning quantity (pounds)
hydrogen fluoride	7664-39-3		100	100
Sulphuric acid	7664-93-9		1,000	1000

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	CAS No	Remarks	Effective date
hydrogen fluoride	7664-39-3		1986-12-31
Sulphuric acid	7664-93-9	acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size	1986-12-31

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
hydrogen fluoride	7664-39-3		1 3 4	100 (45,4)
Sulphuric acid	7664-93-9		1	1000 (454)

Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- 3 "3" indicates that the source is section 112 of the Clean Air Act
- 4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Clean Air Act

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
hydrogen fluoride	7664-39-3	Toxic substance	a b	1000

Legend

- a Mandated for listing by Congress.
b On EHS list, vapor pressure 10 mmHg or greater.

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
Water	7732-18-5	solvent	
oxalic acid	144-62-7	pH adjusting agent	
Alcohols, C9-11 ethoxylated		surfactant	
sodium 1-octanesulfonate - substance	5324-84-5	surfactant	
Sulphuric acid	7664-93-9	metal cleaner	IARC Carcinogens - 1 NTP 13th RoC - known OEHHA RELs Prop 65
hydrogen fluoride	7664-39-3	metal cleaner	CA TACs OEHHA RELs
sodium sulfate	7757-82-6	cleaning agent	
isopropyl alcohol	67-63-0	alcohols	OEHHA RELs

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
hydrogen fluoride	7664-39-3		HHS	1000 LBS	1.0 %
Sulphuric acid	7664-93-9				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
oxalic acid	144-62-7	A, O	

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
oxalic acid	144-62-7		CO
hydrogen fluoride	7664-39-3		CO R1
Sulphuric acid	7664-93-9		CA CO R2

Legend

CA Carcinogenic
CO Corrosive
R1 Reactive - First Degree
R2 Reactive - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
ETHANEDIOIC ACID	144-62-7	
HYDROFLUORIC ACID	7664-39-3	E
SULFURIC ACID	7664-93-9	E

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
oxalic acid	144-62-7	T, F
oxalic acid	144-62-7	T, F
oxalic acid	144-62-7	F
hydrogen fluoride	7664-39-3	T, F
hydrogen fluoride	7664-39-3	T, F
Sulphuric acid	7664-93-9	T, F

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 0.07 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 0.07 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
CA	DSL	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
AU	AIIC	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Legend

REACH Reg. REACH registered substances
 TCSI Taiwan Chemical Substance Inventory
 TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

16 Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
ACGIH®	American Conference of Governmental Industrial Hygienists
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal ARB	California Air Resources Board
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
NFPA®	National Fire Protection Association (United States)

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Clean Line Miracle Wash

Version number: GHS 1.0

Date of compilation: 2024-11-22

Abbr.	Descriptions of used abbreviations
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Hazardous Products Regulations (HPR)

SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.