

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015). Revision Date: 08/29/2019 Date of Issue: 04/10/2019 Version: 2.0

SECTION 1: IDENTIFICATION

1.1. **Product Identifier**

Product Form: Mixture

Product Name: PERMAGUARD[™] Cleaner & Degreaser

Intended Use of the Product 1.2.

Cleaner & degreaser

Name, Address, and Telephone of the Responsible Party 1.3.

Company

LATICRETE International 1 Laticrete Park, N Bethany, CT 06524 T (203)-393-0010

Company LATICRETE Canada ULC PO Box 129, Emeryville, Ontario, Canada NOR-1A0 (833)-254-9255

www.laticrete.com

1.4. **Emergency Telephone Number**

Emergency Number : For chemical emergency call ChemTel day or night: (800)255-3924 (North America) (800)-099-0731 (Mexico) +1 (813)248-0585 (International - collect calls accepted)

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SECTION 2: HAZARDS IDENTIFICATION

2.1. **Classification of the Substance or Mixture**

GHS-US/CA Classification		
Skin Corr. 1	H314	
Eve Dam 1	H318	

Eye Dam. 1	H318
Aquatic Acute 3	H402

Full text of hazard classes and H-statements : see section 16

2.2. **Label Elements**

GHS-US/CA Labeling

Hazard Pictograms	(GHS-US/CA)
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		GH505
Signal Word (GHS-US/CA)	:	Danger
Hazard Statements (GHS-US/CA)	:	H314 - Causes severe skin burns and eye damage.
		H318 - Causes serious eye damage.
		H402 - Harmful to aquatic life.
Precautionary Statements (GHS-US/CA)	:	P260 - Do not breathe vapors, mist, or spray.
		P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
		P273 - Avoid release to the environment.
		P280 - Wear protective gloves, protective clothing, and eye protection.
		P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
		Rinse skin with water .
		P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		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 or doctor.
		P321 - Specific treatment (see section 4 on this SDS).
		P363 - Wash contaminated clothing before reuse.

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P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Alcohols, C7-21, ethoxylated	(CAS-No.) 68991-48-0	2.4 - 3.2	Eye Irrit. 2A, H319
Ethanolamine	(CAS-No.) 141-43-5	1-5	Flam. Liq. 4, H227
			Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Dermal), H312
			Acute Tox. 4 (Inhalation:vapour), H332
			Skin Corr. 1B, H314
			Eye Dam. 1, H318
			STOT SE 3, H335
			Aquatic Acute 2, H401
			Aquatic Chronic 3, H412
Potassium hydroxide	(CAS-No.) 1310-58-3	0.1 - 1	Met. Corr. 1, H290
			Acute Tox. 3 (Oral), H301
			Skin Corr. 1, H314
			Eye Dam. 1, H318
			STOT SE 1, H370
Diethanolamine	(CAS-No.) 111-42-2	0.0006-0.006	Acute Tox. 4 (Oral), H302
			Eye Irrit. 2, H319
			Carc. 2, H351
			STOT RE 2, H373
			Aquatic Acute 2, H401
			Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes severe skin burns and eye damage.

Inhalation: May be corrosive to the respiratory tract.

Skin Contact: Causes severe irritation which will progress to chemical burns.

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Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Not available

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Not explosive, but may release hydrogen gas on contact with some metals. Product is not explosive.

Reactivity: May be corrosive to metals upon prolonged contact. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products**: Carbon oxides (CO, CO₂). Nitrogen oxides. May liberate toxic gases.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. May release corrosive vapors. Precautions for Safe Handling: Do not breathe vapors, mist, and spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

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Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container. Store locked up/in a secure area.

Incompatible Materials: Acids. Strong oxidizers. halogenated hydrocarbons. Nitrites. Copper. Aluminum. Strong reducing agents. Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Cleaner & Degreaser

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Ethanolamine (141-43-5)		
USA ACGIH	ACGIH TWA (ppm)	3 ppm
USA ACGIH	ACGIH STEL (ppm)	6 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	6 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	3 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	8 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	3 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	15 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	6 ppm
USA IDLH	US IDLH (ppm)	30 ppm
Alberta	OEL STEL (mg/m³)	15 mg/m ³
Alberta	OEL STEL (ppm)	6 ppm
Alberta	OEL TWA (mg/m³)	7.5 mg/m ³
Alberta	OEL TWA (ppm)	3 ppm
British Columbia	OEL STEL (ppm)	6 ppm
British Columbia	OEL TWA (ppm)	3 ppm
Manitoba	OEL STEL (ppm)	6 ppm
Manitoba	OEL TWA (ppm)	3 ppm
New Brunswick	OEL STEL (mg/m³)	15 mg/m ³
New Brunswick	OEL STEL (ppm)	6 ppm
New Brunswick	OEL TWA (mg/m³)	7.5 mg/m ³
New Brunswick	OEL TWA (ppm)	3 ppm
Newfoundland & Labrador	OEL STEL (ppm)	6 ppm
Newfoundland & Labrador	OEL TWA (ppm)	3 ppm
Nova Scotia	OEL STEL (ppm)	6 ppm
Nova Scotia	OEL TWA (ppm)	3 ppm
Nunavut	OEL STEL (ppm)	6 ppm
Nunavut	OEL TWA (ppm)	3 ppm
Northwest Territories	OEL STEL (ppm)	6 ppm
Northwest Territories	OEL TWA (ppm)	3 ppm
Ontario	OEL STEL (ppm)	6 ppm
Ontario	OEL TWA (ppm)	3 ppm
Prince Edward Island	OEL STEL (ppm)	6 ppm
Prince Edward Island	OEL TWA (ppm)	3 ppm
Québec	VECD (mg/m ³)	15 mg/m ³
Québec	VECD (ppm)	6 ppm
Québec	VEMP (mg/m ³)	7.5 mg/m ³
Québec	VEMP (ppm)	3 ppm
Saskatchewan	OEL STEL (ppm)	6 ppm
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Saskatchewan	OEL TWA (ppm)	3 ppm
Yukon	OEL STEL (mg/m ³)	12 mg/m ³
Yukon	OEL STEL (ppm)	6 ppm
Yukon	OELTWA (mg/m ³)	6 mg/m ³
Yukon	OELTWA (ppm)	3 ppm
Potassium hydroxide (1310-	-	
USA ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
Alberta	OEL Ceiling (mg/m ³)	2 mg/m ³
British Columbia	OEL Ceiling (mg/m ³)	2 mg/m ³
Manitoba	OEL Ceiling (mg/m ³)	2 mg/m ³
New Brunswick	OEL Ceiling (mg/m ³)	2 mg/m ³
Newfoundland & Labrador	OEL Ceiling (mg/m ³)	2 mg/m ³
Nova Scotia	OEL Ceiling (mg/m ³)	2 mg/m ³
Nunavut	OEL Ceiling (mg/m ³)	2 mg/m ³
Northwest Territories	OEL Ceiling (mg/m ³)	2 mg/m ³
Ontario	OEL Ceiling (mg/m ³)	2 mg/m ³
Prince Edward Island	OEL Ceiling (mg/m ³)	2 mg/m ³
Québec	PLAFOND (mg/m ³)	2 mg/m ³
Saskatchewan	OEL Ceiling (mg/m ³)	2 mg/m ³
Yukon	OEL Ceiling (mg/m ³)	2 mg/m ³
Diethanolamine (111-42-2)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m ³ (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure
		by the cutaneous route, Confirmed Animal Carcinogen with
		Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m³)	
	NIOSH REL (TWA) (mg/m ³) NIOSH REL (TWA) (ppm)	15 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	15 mg/m ³ 3 ppm
USA NIOSH Alberta	NIOSH REL (TWA) (ppm) OEL TWA (mg/m ³)	15 mg/m ³ 3 ppm 2 mg/m ³
USA NIOSH Alberta British Columbia	NIOSH REL (TWA) (ppm) OEL TWA (mg/m ³) OEL TWA (mg/m ³)	15 mg/m³ 3 ppm 2 mg/m³ 2 mg/m³
USA NIOSH Alberta British Columbia Manitoba	NIOSH REL (TWA) (ppm) OEL TWA (mg/m ³) OEL TWA (mg/m ³) OEL TWA (mg/m ³)	15 mg/m³ 3 ppm 2 mg/m³ 2 mg/m³ 1 mg/m³ (inhalable fraction and vapor)
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USA NIOSH Alberta British Columbia Manitoba New Brunswick	NIOSH REL (TWA) (ppm) OEL TWA (mg/m ³) OEL TWA (mg/m ³) OEL TWA (mg/m ³) OEL TWA (mg/m ³)	15 mg/m³ 3 ppm 2 mg/m³ 2 mg/m³ 1 mg/m³ (inhalable fraction and vapor) 2 mg/m³ 0.46 ppm
USA NIOSH Alberta British Columbia Manitoba New Brunswick New Brunswick	NIOSH REL (TWA) (ppm) OEL TWA (mg/m ³) OEL TWA (mg/m ³) OEL TWA (mg/m ³) OEL TWA (mg/m ³) OEL TWA (ppm)	15 mg/m³ 3 ppm 2 mg/m³ 2 mg/m³ 1 mg/m³ (inhalable fraction and vapor) 2 mg/m³
USA NIOSH Alberta British Columbia Manitoba New Brunswick New Brunswick Newfoundland & Labrador Nova Scotia	NIOSH REL (TWA) (ppm) OEL TWA (mg/m ³) OEL TWA (mg/m ³)	15 mg/m³ 3 ppm 2 mg/m³ 2 mg/m³ (inhalable fraction and vapor) 2 mg/m³ 0.46 ppm 1 mg/m³ (inhalable fraction and vapor)
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8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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Personal Protective Equipment: Insufficient ventilation: wear respiratory protection. Gloves. Protective clothing. Protective goggles. Face shield.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chen	nica	Properties
Physical State	:	Liquid
Appearance	:	Light yellow
Odor	:	Mild
Odor Threshold	:	Not available
рН	:	11.5 - 12.5
Evaporation Rate	:	Not available
Melting Point	:	Not applicable
Freezing Point	:	Not available
Boiling Point	:	100 °C (212 °F)
Flash Point	:	Does not flash (N/A)
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not applicable
Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20°C	:	Not available
Relative Density	:	Not available
Specific Gravity	:	1.003
Solubility	:	Not available
Partition Coefficient: N-Octanol/Water	:	Not available
Viscosity	:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: May be corrosive to metals upon prolonged contact. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials: Acids. Strong oxidizers. halogenated hydrocarbons. Nitrites. Copper. Aluminum. Strong reducing agents. Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Aldehydes. Ketones. Organic acids. Nitrogen oxides. Ammonia. Potassium oxides. Thermal decomposition generates : Corrosive vapors.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

pH: 11.5 - 12.5

Eye Damage/Irritation: Causes serious eye damage.

pH: 11.5 - 12.5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Ethanolamine (141-43-5)	
LD50 Oral Rat	1720 mg/kg
LD50 Dermal Rabbit	1025 mg/kg
ATE US/CA (vapors)	11.00 mg/l/4h
Potassium hydroxide (1310-58-3)	
LD50 Oral Rat	284 mg/kg
Diethanolamine (111-42-2)	
LD50 Oral Rat	1820 mg/kg
LD50 Dermal Rabbit	11.9 ml/kg
Diethanolamine (111-42-2)	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Harmful to aquatic life.

Ethanolamine (141-43-5)		
LC50 Fish 1	227 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	3684 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
ErC50 (algae)	2.5 mg/l	
Diethanolamine (111-42-2)		
LC50 Fish 1	4460 (4460 - 4980) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow- through])	
EC50 Daphnia 1	55 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	1200 (1200 - 1580) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Other Aquatic Organisms 2	2.1 (2.1 - 2.3) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)	

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ErC50 (algae)	2.2 mg/l (Exposure time: 96 h - Species: Pseudokirchnerella subcapitata [Static])	
NOEC Chronic Crustacea	0.78 mg/l	
12.2. Persistence and Degradabil	ity	
PERMAGUARD™ Cleaner & Degreaser		
Persistence and Degradability	Not established.	
12.3. Bioaccumulative Potential		
PERMAGUARD [™] Cleaner & Degreaser		
Bioaccumulative Potential	Not established.	
Ethanolamine (141-43-5)		
Log Pow	-1.91 (at 25 °C)	
Potassium hydroxide (1310-58-3)		
Log Pow	0.65	
Diethanolamine (111-42-2)		
BCF Fish 1	(no significant bioconcentration)	
Log Pow	-2.18 (at 25 °C)	
12.4 Mobility in Soil Not a		

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with D	ОТ
Proper Shipping Name	: CORROSIVE LIQUIDS, N.O.S. (Contains Ethanolamine, Potassium Hydroxide)
Hazard Class	: 8
Identification Number	: UN1760
Label Codes	: 8
Packing Group	: 111
ERG Number	: 154
14.2. In Accordance with IN	1DG
Proper Shipping Name	: CORROSIVE LIQUID, N.O.S. (Contains Ethanolamine, Potassium Hydroxide)
Hazard Class	: 8
Identification Number	: UN1760
Label Codes	: 8
Packing Group	: III
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
14.3. In Accordance with IA	ТА
Proper Shipping Name	: CORROSIVE LIQUID, N.O.S. (Contains Ethanolamine, Potassium Hydroxide)
Hazard Class	: 8
Identification Number	: UN1760
Label Codes	: 8
Packing Group	: 111
ERG Code (IATA)	: 8L
14.4. In Accordance with T	DG

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Proper Shipping Name	: CORROSIVE LIQUID, N.O.S. (Contains Ethanolamine, Potassium Hydroxide)
Hazard Class	: 8
Identification Number	: UN1760
Label Codes	: 8
Packing Group	: III

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

PERMAGUARD [™] Cleaner & Degreaser				
SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation			
	Health hazard - Skin corrosion or Irritation			
Ethanolamine (141-43-5)				
Listed on the United States TSCA (Toxic Substances Control A	ct) inventory			
Potassium hydroxide (1310-58-3)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
CERCLA RQ	1000 lb			
Alcohols, C7-21, ethoxylated (68991-48-0)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the			
	Chemical Data Reporting Rule, (40 CFR 711).			
Diethanolamine (111-42-2)				
Listed on the United States TSCA (Toxic Substances Control A	ct) inventory			
Subject to reporting requirements of United States SARA Section 313				
CERCLA RQ	100 lb			
SARA Section 313 - Emission Reporting	1%			

15.2. US State Regulations

California Proposition 65

WARNING: This product can expose you to Diethanolamine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental	Female Reproductive	Male Reproductive	
		Toxicity	Toxicity	Toxicity	
Diethanolamine (111-42-2)	Х				
Ethanolamine (141-43-5)					
U.S Massachusetts - Right To k	(now List				
U.S New Jersey - Right to Know	v Hazardous Substance	e List			
U.S Pennsylvania - RTK (Right to Know) List					
Potassium hydroxide (1310-58-	3)				
U.S Massachusetts - Right To Know List					
U.S New Jersey - Right to Know Hazardous Substance List					
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List					
U.S Pennsylvania - RTK (Right to Know) List					
Diethanolamine (111-42-2)					
U.S Massachusetts - Right To Know List					
U.S New Jersey - Right to Know Hazardous Substance List					
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List					
U.S Pennsylvania - RTK (Right to Know) List					

15.3. Canadian Regulations

Ethanolamine (141-43-5)

Listed on the Canadian DSL (Domestic Substances List)

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Potassium hydroxide (1310-58-3)		
Listed on the Canadian DSL (Domes	tic Substances List)	
Alcohols, C7-21, ethoxylated (6899	1-48-0)	
Listed on the Canadian DSL (Domest	tic Substances List)	
Diethanolamine (111-42-2)		
Listed on the Canadian DSL (Domest	tic Substances List)	
ECTION 16: OTHER INFORMAT	TION, INCLUDING DATE OF PREPARATION OR LAST REVISION	
Date of Preparation or Latest	: 08/29/2019	
Revision	• 08/23/2015	
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA	
	Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products	
	Regulations (HPR) SOR/2015-17.	
GHS Full Text Phrases:		
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4	Acute toxicity (inhalation:vapour) Category 4	
(Inhalation:vapour)		
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2	
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3	
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3	
Carc. 2	Carcinogenicity Category 2	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation Category 2	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 4	Flammable liquids Category 4	
Met. Corr. 1	Corrosive to metals Category 1	
Skin Corr. 1	Skin corrosion/irritation Category 1	
Skin Corr. 1B	Skin corrosion/irritation Category 1 Skin corrosion/irritation Category 1B	
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
STOT SE 1	Specific target organ toxicity (repeated exposure) Category 1	
STOT SE 3	Specific target organ toxicity (single exposure) Category 1 Specific target organ toxicity (single exposure) Category 3	
H227	Combustible liquid	
H290	May be corrosive to metals	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H318		
H319	Causes serious eye damage Causes serious eye irritation	
H319	Harmful if inhaled	
H335	May cause respiratory irritation	
H351	Suspected of causing cancer	
H370	Causes damage to organs	
H373	May cause damage to organs through prolonged or repeated exposure	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	
H412	Harmful to aquatic life with long lasting effects	

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)