

NXT® LEVEL

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).

Date of Issue: 09/25/2019

Version: 1.0

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1.1. **Product Identifier**

Product Form: Mixture

Product Name: NXT® LEVEL

Product Code: 0900-0050-21 (108, 110, 120, 130)

1.2. Intended Use of the Product

Underlayment. For professional use only.

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

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 Inc. day or night: (800)255-3924 (North America) (800)-099-0731 (Mexico) +1 (813)248-0585 (International - collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture 2.1.

GHS-US/CA Classification

Skin Corr. 1C	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Carc. 1A	H350
STOT SE 3	H335
STOT RE 1	H372

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

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA)	: Danger
Hazard Statements (GHS-US/CA)	: H314 - Causes severe skin burns and eye damage.
	H317 - May cause an allergic skin reaction.
	H318 - Causes serious eye damage.
	H335 - May cause respiratory irritation.
	H350 - May cause cancer (Inhalation).
	H372 - Causes damage to organs (lungs) through prolonged or repeated exposure
	(Inhalation).
Precautionary Statements (GHS-US/CA)	: P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P260 - Do not breathe dust.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.

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).

P272 - Contaminated work clothing should not be allowed out of the workplace.

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.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see section 4 on this SDS).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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
Quartz	(CAS-No.) 14808-60-7	46.3 - 46.5	Carc. 1A, H350
			STOT SE 3, H335
			STOT RE 1, H372
Cement, alumina, chemicals	(CAS-No.) 65997-16-2	10 - 30	Eye Irrit. 2A, H319
Calcium sulfate dihydrate	(CAS-No.) 13397-24-5	7 - 13	Not classified
Calcium oxide	(CAS-No.) 1305-78-8	7.8 - 12.5	Skin Irrit. 2, H315
			Eye Dam. 1, H318
			STOT SE 3, H335
			Aquatic Acute 3, H402
			Aquatic Chronic 3, H412
Magnesium oxide (MgO)	(CAS-No.) 1309-48-4	2.2 - 4.3	Not classified
Cement, portland, chemicals	(CAS-No.) 65997-15-1	1 - 5	Skin Irrit. 2, H315
			Eye Dam. 1, H318
			Skin Sens. 1, H317
			STOT SE 3, H335
Carbonic acid, calcium salt (1:1)	(CAS-No.) 471-34-1	0.095 - 0.19	Not classified
Limestone	(CAS-No.) 1317-65-3	<= 0.1	Not classified
Silicic acid (H4SiO4), calcium salt (1:2)	(CAS-No.) 10034-77-2	0.07 - 0.13	Eye Irrit. 2A, H319
Lithium carbonate	(CAS-No.) 554-13-2	0.1 - 1	Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Inhalation:dust,mist), H332
			Eye Irrit. 2B, H320
			Lact, H362
			Repr. 1A, H360
			STOT SE 3, H335

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).

			STOT SE 1, H370
			STOT RE 1, H372
			Aquatic Acute 2, H401
			Aquatic Chronic 2, H411
Methacrylic acid	(CAS-No.) 79-41-4	< 0.001	Flam. Liq. 4, H227
			Acute Tox. 4 (Oral), H302
			Acute Tox. 3 (Dermal), H311
			Acute Tox. 4 (Inhalation), H332
			Skin Corr. 1A, H314
			Eye Dam. 1, H318
			STOT SE 3, H335
			Aquatic Acute 3, H402
Chromium, ion (Cr6+)	(CAS-No.) 18540-29-9	< 0.000003	Skin Sens. 1, H317
			Carc. 1B, H350
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
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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%).

** The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.

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: May cause respiratory irritation. May cause cancer (Inhalation). Skin sensitization. Causes severe skin burns and eye damage. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

Inhalation: Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

Skin Contact: Cement may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. A skin exposure may be hazardous even if there is no pain or discomfort. Cement is capable of causing dermatitis by irritation and allergy. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Irritant dermatitis is caused by the physical properties of cement including alkalinity and abrasion. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in cement. The reaction can range from a mild rash to severe skin ulcers. Persons already sensitized may react to the first contact with cement. Others may develop allergic dermatitis after years of repeated contact with cement.

Eye Contact: Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

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

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).

Chronic Symptoms: May cause cancer by inhalation. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). This product contains crystalline silica, which upon long-term exposure to levels above the PEL/TLV may produce bronchitis, silicosis, a fibrotic (scarring) disease of the lungs, and potentially lung cancer. Studies have shown that smoking increases the risk of these diseases.

This product may also increase the risk of scleroderma for which the causes are unknown, but some reports link over exposure to silica in combination with other chemicals to this disease. Chromium: Certain hexavalent chromium compounds have been demonstrated to be carcinogenic on the basis of epidemiological investigations on workers and experimental studies in animals. Increased incidences of respiratory cancer have been found in chromium (VI) workers. There is an increased incidence of lung cancer in industrial workers exposed to chromium (VI) compounds. Please refer to IARC volume 23 for a more detailed discussion.

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: Product is not explosive.

Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction. Quartz (silica) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride. Calcium oxide reacts with water to form corrosive calcium hydroxide, with evolution of much heat. Temperatures as high as 800° C (1472 °F) have been reached with addition of water (moisture in air or soil).

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). Oxides of silicone. Hydrogen sulfide.

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 dust. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

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.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and 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. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cautiously neutralize spilled solid.

6.4. Reference to Other Sections

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

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).

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes, skin and clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. 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.

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 locked up/in a secure area. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

7.3. Specific End Use(s)

Underlayment. For professional use only.

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.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 μg/m ³ (Respirable crystalline silica)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m³)	0.025 mg/m ³ (respirable particulate)
British Columbia	OEL TWA (mg/m³)	0.025 mg/m ³ (respirable)
Manitoba	OEL TWA (mg/m³)	0.025 mg/m ³ (respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	0.1 mg/m ³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	0.025 mg/m ³ (respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	0.025 mg/m ³ (respirable particulate matter)
Nunavut	OEL TWA (mg/m³)	0.05 mg/m ³ (respirable fraction (Silica - crystalline)
Northwest Territories	OEL TWA (mg/m³)	0.05 mg/m ³ (respirable fraction (Silica - crystalline)
Ontario	OEL TWA (mg/m³)	0.1 mg/m ³ (designated substances regulation-respirable
		(Silica, crystalline)
Prince Edward Island	OEL TWA (mg/m³)	0.025 mg/m ³ (respirable particulate matter)
Québec	VEMP (mg/m ³)	0.1 mg/m ³ (respirable dust)
Saskatchewan	OEL TWA (mg/m³)	0.05 mg/m ³ (respirable fraction (Silica - crystalline
		(Trydimite removed))
Yukon	OEL TWA (mg/m³)	300 particle/mL (Silica - Quartz, crystalline)
Calcium sulfate dihydrate (1	3397-24-5)	
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter (Calcium sulfate)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (total dust)
		5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m ³ (total dust)
		5 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m³)	10 mg/m ³ (Calcium sulphate)
09/25/2019	EN (English LIS)	5/15

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).

	. 58 / Monday, March 26, 2012 / Rules And Regulations And	
British Columbia	OEL STEL (mg/m³)	20 mg/m ³ (total)
British Columbia	OEL TWA (mg/m³)	10 mg/m ³ (total dust)
		3 mg/m ³ (respirable fraction)
Manitoba	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter (Calcium sulfate)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter (Calcium sulfate)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter (Calcium sulfate)
Ontario	OEL TWA (mg/m³)	10 mg/m ³ (inhalable (Calcium sulfate)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter (Calcium sulfate)
Québec	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline
		silica-total dust)
		5 mg/m ³ (containing no Asbestos and <1% Crystalline
		silica-respirable dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	30 mppcf
		10 mg/m ³
Cement, portland, chemical	(65997-15-1)	5,
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no asbestos and
		<1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)
		5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust)
USA NIUSIT		5 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	5000 mg/m ³
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OELTWA (mg/m ³)	1 mg/m ³ (particulate matter containing no Asbestos and
British Columbia	OEL I WA (IIIg/III)	<1% Crystalline silica-respirable particulate)
Manitoba	OEL TWA (mg/m³)	1 mg/m ³ (particulate matter containing no Asbestos and
		<1% Crystalline silica, respirable particulate matter-
		particulate matter, respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	10 mg/m ³ (particulate matter containing no Asbestos and
		<1% Crystalline silica)
Newfoundland & Labrador	OEL TWA (mg/m³)	1 mg/m ³ (particulate matter containing no Asbestos and
		<1% Crystalline silica, respirable particulate matter-
		particulate matter, respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	1 mg/m ³ (particulate matter containing no Asbestos and
	· · · · · · · · · · · · · · · · · · ·	<1% Crystalline silica, respirable particulate matter-
		particulate matter, respirable particulate matter)
Nunavut	OEL STEL (mg/m³)	20 mg/m ³
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³
Ontario	OEL TWA (mg/m ³)	1 mg/m ³ (containing no Asbestos and <1% Crystalline
U.I.U.I.V		silica-respirable)
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m ³ (particulate matter containing no Asbestos and
		<1% Crystalline silica, respirable particulate matter-
		particulate matter, respirable particulate matter)
Québec	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline
<i>L</i> ACNCC		silica-total dust)
		5 mg/m ³ (containing no Asbestos and <1% Crystalline
		silica-respirable dust)
09/25/2019	EN (English US)	6/15

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).

		ons And According To The Hazardous Products Regulation (February 11, 2015).
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OELTWA (mg/m³)	30 mppcf
		10 mg/m ³
Calcium oxide (1305-78-8)		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	2 mg/m ³
USA IDLH	US IDLH (mg/m ³)	25 mg/m ³
Alberta	OEL TWA (mg/m ³)	2 mg/m ³
British Columbia	OEL TWA (mg/m ³)	2 mg/m ³
Manitoba	OEL TWA (mg/m ³)	2 mg/m ³
New Brunswick	OEL TWA (mg/m ³)	2 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	2 mg/m ³
Nova Scotia	OEL TWA (mg/m ³)	2 mg/m ³
Nunavut	OEL STEL (mg/m ³)	4 mg/m ³
Nunavut	OEL TWA (mg/m ³)	2 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	4 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	2 mg/m ³
Ontario	OEL TWA (mg/m ³)	2 mg/m ³
Prince Edward Island	OEL TWA (mg/m ³)	2 mg/m ³
Québec	VEMP (mg/m ³)	2 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	4 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	2 mg/m ³
Yukon	OEL STEL (mg/m ³)	4 mg/m ³
Yukon	OEL TWA (mg/m³)	2 mg/m ³
Limestone (1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (total dust)
		5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m ³ (total dust)
		5 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OEL STEL (mg/m ³)	20 mg/m ³ (total)
British Columbia	OEL TWA (mg/m³)	10 mg/m ³ (total dust)
		3 mg/m ³ (respirable fraction)
New Brunswick	OEL TWA (mg/m³)	10 mg/m ³ (particulate matter containing no Asbestos and
•• •		<1% Crystalline silica)
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m³)	10 mg/m ³
Québec	VEMP (mg/m³)	10 mg/m ³ (Limestone, containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	30 mppcf
		10 mg/m ³
Magnesium oxide (MgO) (13	809-48-4)	
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
09/25/2019	EN (English US)	7/15

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).

		According To The Hazardous Products Regulation (February 11, 2015).
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (fume, total particulate)
USA IDLH	US IDLH (mg/m ³)	750 mg/m ³ (fume)
Alberta	OEL TWA (mg/m³)	10 mg/m³ (fume)
British Columbia	OEL STEL (mg/m ³)	10 mg/m ³ (respirable dust and fume)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (fume, inhalable)
		3 mg/m ³ (respirable dust and fume)
Manitoba	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (fume)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter)
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³ (inhalable fraction)
Nunavut	OEL TWA (mg/m³)	10 mg/m ³ (inhalable fraction)
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³ (inhalable fraction)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m ³ (inhalable fraction)
Ontario	OEL TWA (mg/m³)	10 mg/m ³ (inhalable)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m ³ (inhalable particulate matter)
Québec	VEMP (mg/m ³)	10 mg/m³ (fume)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³ (inhalable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m ³ (inhalable fraction)
Yukon	OEL STEL (mg/m ³)	10 mg/m³ (fume)
Yukon	OEL TWA (mg/m ³)	10 mg/m³ (fume)
Chromium, ion (Cr6+) (1854	D-29-9)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 μg/m³
Carbonic acid, calcium salt (
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust)
		5 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m³)	10 mg/m ³
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³ (Limestone)
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³ (Limestone)
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³ (Limestone)
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³ (Limestone)
Québec	VEMP (mg/m ³)	10 mg/m ³ (total dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³ (Limestone)
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³ (Limestone)
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	30 mppcf
-		10 mg/m ³
Methacrylic acid (79-41-4)		-
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	70 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm
Alberta	OEL TWA (mg/m ³)	70 mg/m ³
Alberta	OEL TWA (ppm)	20 ppm
British Columbia	OEL TWA (ppm)	20 ppm
Manitoba	OEL TWA (ppm)	20 ppm
New Brunswick	OELTWA (mg/m ³)	70 mg/m ³
New Brunswick	OEL TWA (ppm)	20 ppm
Newfoundland & Labrador	OEL TWA (ppm)	20 ppm
Nova Scotia	OEL TWA (ppm)	20 ppm
Nunavut	OEL STEL (ppm)	30 ppm
Nunavut	OEL TWA (ppm)	20 ppm
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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).

Northwest Territories	OEL STEL (ppm)	30 ppm	
Northwest Territories	OEL TWA (ppm)	20 ppm	
Ontario	OEL TWA (ppm)	20 ppm	
Prince Edward Island	OEL TWA (ppm)	20 ppm	
Québec	VEMP (mg/m ³)	70 mg/m ³	
Québec	VEMP (ppm)	20 ppm	
Saskatchewan	OEL STEL (ppm)	30 ppm	
Saskatchewan	OEL TWA (ppm)	20 ppm	

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.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. 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 Chemical Properties				
Physical State : Solid				
Appearance	: Gray powder			
Odor	: None			
Odor Threshold	: Not available			
рН	: Not applicable			
Evaporation Rate	: Not available			
Melting Point	: Not available			
Freezing Point	: Not available			
Boiling Point	: Not available			
Flash Point	: Not available			
Auto-ignition Temperature	: Not available			
Decomposition Temperature	: Not available			
Flammability (solid, gas)	: Not available			
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	: Not available			
Solubility	: Water: Insoluble			
Partition Coefficient: N-Octanol/Water	: Not available			
Viscosity	: Not available			

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).

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction. Quartz (silica) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride. Calcium oxide reacts with water to form corrosive calcium hydroxide, with evolution of much heat. Temperatures as high as 800° C (1472 °F) have been reached with addition of water (moisture in air or soil).

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: Strong acids, strong bases, strong oxidizers. Acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

10.6. Hazardous Decomposition Products: Thermal decomposition generates : Corrosive vapors.

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: Not applicable

Eye Damage/Irritation: Causes serious eye damage.

pH: Not applicable

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer (Inhalation).

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

Symptoms/Injuries After Skin Contact: Cement may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. A skin exposure may be hazardous even if there is no pain or discomfort. Cement is capable of causing dermatitis by irritation and allergy. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Irritant dermatitis is caused by the physical properties of cement including alkalinity and abrasion. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in cement. The reaction can range from a mild rash to severe skin ulcers. Persons already sensitized may react to the first contact with cement. Others may develop allergic dermatitis after years of repeated contact with cement.

Symptoms/Injuries After Eye Contact: Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. **Chronic Symptoms:** May cause cancer by inhalation. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). This product contains crystalline silica, which upon long-term exposure to levels above the PEL/TLV may produce bronchitis, silicosis, a fibrotic (scarring) disease of the lungs, and potentially lung cancer. Studies have shown that smoking increases the risk of these diseases.

This product may also increase the risk of scleroderma for which the causes are unknown, but some reports link over exposure to silica in combination with other chemicals to this disease. . Chromium: Certain hexavalent chromium compounds have been

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).

demonstrated to be carcinogenic on the basis of epidemiological investigations on workers and experimental studies in animals. Increased incidences of respiratory cancer have been found in chromium (VI) workers. There is an increased incidence of lung cancer in industrial workers exposed to chromium (VI) compounds. Please refer to IARC volume 23 for a more detailed discussion.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Quartz (14808-60-7)			
LD50 Oral Rat	> 5000 mg/kg		
LD50 Dermal Rat	> 5000 mg/kg		
Calcium oxide (1305-78-8)			
LD50 Oral Rat	> 2000 mg/kg		
LD50 Dermal Rabbit	> 2500 mg/kg		
Lithium carbonate (554-13-2)			
LD50 Oral Rat	525 mg/kg		
LD50 Dermal Rabbit	> 3000 mg/kg		
LC50 Inhalation Rat	> 2.17 mg/l/4h		
ATE US/CA (dust, mist)	1.50 mg/l/4h		
Magnesium oxide (MgO) (1309-48-4)			
LD50 Oral Rat	3870 mg/kg		
Carbonic acid, calcium salt (1:1) (471-34-1)			
LD50 Oral Rat	6450 mg/kg		
Methacrylic acid (79-41-4)			
LD50 Oral Rat	1060 mg/kg		
LD50 Dermal Rabbit	500 - 1000 mg/kg		
LC50 Inhalation Rat	7.1 mg/l/4h		
ATE US/CA (gas)	4,500.00 ppmV/4h		
ATE US/CA (dust, mist)	1.50 mg/l/4h		
Quartz (14808-60-7)			
IARC Group	1		
National Toxicology Program (NTP) Status	Known Human Carcinogens.		
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.		
Chromium, ion (Cr6+) (18540-29-9)			
IARC Group	1		
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.		
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.		

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Calcium oxide (1305-78-8)	
LC50 Fish 1	50.6 mg/l
Lithium carbonate (554-13-2)	
LC50 Fish 1	8.1 mg/l
Chromium, ion (Cr6+) (18540-29-9)	
LC50 Fish 1	36.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 Fish 2	7.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Methacrylic acid (79-41-4)	
LC50 Fish 1	85 mg/l (Exposure Time: 96 h - Species: Oncorhynchus mykiss[flow-through])
ErC50 (algae)	14 mg/l
NOEC Chronic Crustacea	53 mg/l

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).

12.2. Persistence and Degradability		
NXT® LEVEL		
Persistence and Degradability	Not established.	
12.3. Bioaccumulative Potential		
NXT [®] LEVEL		
Bioaccumulative Potential	Not established.	
Calcium oxide (1305-78-8)		
BCF Fish 1	(no bioaccumulation)	
Carbonic acid, calcium salt (1:1) (471-34-1)		
BCF Fish 1	(no bioaccumulation)	
Methacrylic acid (79-41-4)		
Log Pow	0.93	
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.

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 DOT Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- **14.3.** In Accordance with IATA Not regulated for transport
- **14.4.** In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

NXI®LEVEL	
SARA Section 311/312 Hazard Classes Health hazard - Specific target organ toxicity (single or repeated	
	exposure)
	Health hazard - Carcinogenicity
	Health hazard - Respiratory or skin sensitization
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Skin corrosion or Irritation

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, alumina, chemicals (65997-16-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, portland, chemicals (65997-15-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium oxide (1305-78-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silicic acid (H4SiO4), calcium salt (1:2) (10034-77-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Lithium carbonate (554-13-2)

NXT® LEVEL

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).

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313 SARA Section 313 - Emission Reporting 1% Magnesium oxide (MgO) (1309-48-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory

Carbonic acid, calcium salt (1:1) (471-34-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Methacrylic acid (79-41-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. **US State Regulations**

California Proposition 65

WARNING: This product can expose you to Chromium, ion (Cr6+), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental	Female Reproductive	Male Reproductive
$O_{1}=1$	V	Toxicity	Toxicity	Toxicity
Quartz (14808-60-7)	Х	X		
Lithium carbonate (554-13-2)	N N	X		
Chromium, ion (Cr6+) (18540-	Х	Х		
29-9)				
Quartz (14808-60-7)				
U.S Massachusetts - Right To K				
U.S New Jersey - Right to Know		LIST		
U.S Pennsylvania - RTK (Right to				
Calcium sulfate dihydrate (1339)		· .		
U.S New Jersey - Right to Know		List		
U.S Pennsylvania - RTK (Right to				
Cement, portland, chemicals (65				
U.S Massachusetts - Right To K				
U.S New Jersey - Right to Know		List		
U.S Pennsylvania - RTK (Right to	o Know) List			
Calcium oxide (1305-78-8)				
U.S Massachusetts - Right To K				
U.S New Jersey - Right to Know		List		
U.S Pennsylvania - RTK (Right to	o Know) List			
Limestone (1317-65-3)				
U.S Massachusetts - Right To K				
U.S New Jersey - Right to Know Hazardous Substance List				
U.S Pennsylvania - RTK (Right to Know) List				
Lithium carbonate (554-13-2)				
U.S Massachusetts - Right To K	now List			
U.S New Jersey - Right to Know Hazardous Substance List				
Magnesium oxide (MgO) (1309-4	48-4)			
U.S Massachusetts - Right To K	now List			
U.S New Jersey - Right to Know	U.S New Jersey - Right to Know Hazardous Substance List			
U.S Pennsylvania - RTK (Right to	o Know) List			
Chromium, ion (Cr6+) (18540-29	-9)			
U.S Pennsylvania - RTK (Right to	o Know) - Environmenta	al Hazard List		
U.S Pennsylvania - RTK (Right to	o Know) List			
Methacrylic acid (79-41-4)				
U.S Massachusetts - Right To K	now List			
U.S New Jersey - Right to Know		List		
09/25/2019	EN (English L	JS)		13/15

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).

U.S. - Pennsylvania - RTK (Right to Know) List

15.3. Canadian Regulations

15.5. Canadian Regulations		
Quartz (14808-60-7)		
Listed on the Canadian DSL (Domestic Substances List)		
Cement, alumina, chemicals (65997-16	j-2)	
Listed on the Canadian DSL (Domestic S	Substances List)	
Calcium sulfate dihydrate (13397-24-5))	
Listed on the Canadian DSL (Domestic S	Substances List)	
Cement, portland, chemicals (65997-1	5-1)	
Listed on the Canadian DSL (Domestic S	Substances List)	
Calcium oxide (1305-78-8)		
Listed on the Canadian DSL (Domestic S	Substances List)	
Silicic acid (H4SiO4), calcium salt (1:2)		
Listed on the Canadian DSL (Domestic S	Substances List)	
Limestone (1317-65-3)		
Listed on the Canadian NDSL (Non-Dom	nestic Substances List)	
Lithium carbonate (554-13-2)		
Listed on the Canadian DSL (Domestic S	Substances List)	
Magnesium oxide (MgO) (1309-48-4)		
Listed on the Canadian DSL (Domestic S	Substances List)	
Carbonic acid, calcium salt (1:1) (471-3	4-1)	
Listed on the Canadian DSL (Domestic S	Substances List)	
Methacrylic acid (79-41-4)		
Listed on the Canadian DSL (Domestic S	Substances List)	
SECTION 16: OTHER INFORMATION	ON, INCLUDING DATE OF PREPARATION OR LAST REVISION	
Date of Preparation or Latest	: 09/25/2019	
Revision		
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 (Dermal)	Acute toxicity (dermal) Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	

Acute toxicity (definal) category 5
Acute toxicity (inhalation) Category 4
Acute toxicity (inhalation:dust,mist) Category 4
Acute toxicity (oral) Category 4
Hazardous to the aquatic environment - Acute Hazard Category 1
Hazardous to the aquatic environment - Acute Hazard Category 2
Hazardous to the aquatic environment - Acute Hazard Category 3
Hazardous to the aquatic environment - Chronic Hazard Category 1
Hazardous to the aquatic environment - Chronic Hazard Category 2
Hazardous to the aquatic environment - Chronic Hazard Category 3
Carcinogenicity Category 1A
Carcinogenicity Category 1B
Serious eye damage/eye irritation Category 1
Serious eye damage/eye irritation Category 2A
Serious eye damage/eye irritation Category 2B
Flammable liquids Category 4

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).

Lact	Reproductive toxicity (Lact.)
Repr. 1A	Reproductive toxicity Category 1A
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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)