High Calcium Limestone

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 2022-12-16
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Supersedes: 2024-02-13
Version: 4.3

SECTION 1: Identification

1.1. Identification

Product form	:	Substance
Product name	:	High Calcium Limestone
Synonyms	:	Solid
Other means of identification	:	SHELL-MIX Calcium Carbonate; STA-STRONG Calcium Carbonate; 1.25 X 5mm (small volumes); CALCO-BASE Pulverized Limestone; CALCO NUTRI Pulverized Limestone; CALCO OMNI Pulverized Limestone; CALCO XL Granular Limestone; "0" Grade Limestone Powder; "0" Grind Limestone Powder; Limestone Ground 325; POULTRY GRIT; DOUBLE DUTY Eggshell Maker and Grit Combined; SUPERCAL; Limestone Ground; Medium Fine Grind

1.2. Recommended use and restrictions on use

Use of the substance	:	Neutralisation, desulphurisation, flux, aggregates, mineral filler, liming, lime, feed ingredient.
Restrictions on use	:	None known

1.3. Supplier

Manufacturer
GRAYMONT
#200-10991 Shellbridge Way
Richmond, BC V6X 3C6 - Canada
T +1 (604) 207-4292; Toll free +1 (866) 207-4292
www.graymont.com

Distributor
Graymont Western US Inc
585 W Southridge Way
Sandy, Utah 84070 - United States
T +1 (801) 262-3942

1.4. Emergency telephone number

Emergency number	:	CHEMTREC +1 (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Carc. 1A
STOT RE 1

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :

Signal word (GHS)	:	Danger
Hazard statements (GHS)	:	May cause cancer (Inhalation). Causes damage to organs (lungs) through prolonged or repeated exposure.
Precautionary statements (GHS)	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product.

Wear protective gloves, protective clothing, eye protection, and face protection.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : High Calcium Limestone

Name	Chemical name / Synonyms	Product identifier	% (w/w)
Limestone	Limestone Chalk / Limestone (A noncombustible solid characteristic of sedimentary rock. It consists primarily of calcium carbonate.) / Natural calcium carbonate / Marble / Calcium carbonate / Limestone (sedimentary rock) / Calcite / Limestone ground / Acetate, 4-methyl-2-propyl-2H-tetrahydropyran-4-yl / Ground limestone	CAS-No.: 1317-65-3	90 – 100
Quartz	Quartz Quartz (SiO_2) / Silica, crystalline, quartz / Crystalline silica, quartz / .alpha.-quartz / Silica, crystalline, .alpha.-quartz / Quartz / Crystalline silica in the form of quartz / Quartz, silica / Quartz (respirable fraction) / Silica dust / Silica, crystalline-.alpha.quartz / Silica, .alpha.-quartz / Silicon dioxide / Silica, quartz / Silica, crystalline / Quartz (crystalline silica) / Silica dust, crystalline / Quartz powder / Silica, crystalline (quartz)	CAS-No.: 14808-60-7	0.0001 – 1

Comments : Crystalline silica has been found in some products at or above detection level 0.1%. Concentration is dependent upon limestone source. Any concentration shown as a range is to protect confidentiality or is due to batch variation. If a generic chemical name is shown and/or the CAS number is not disclosed, the specific chemical identity has been withheld as a trade secret.

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned: Get medical advice or attention.

First-aid measures after inhalation : If breathing is difficult: Remove to fresh air and keep in a position comfortable for breathing. Get medical advice or attention.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Flush skin with water for at least 15 minutes after contact. Get medical attention if irritation persists.

First-aid measures after eye contact : If in eyes: Remove contact lenses, if present and easy to do. Rinse cautiously with water for at least 15 minutes. Continue rinsing for 15 minutes. If eye irritation persists, get medical advice or attention.

First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If discomfort persists, get medical advice or attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms : May cause cancer. Causes damage to lungs through prolonged or repeated exposure.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. If unwell, get medical advice or attention, immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : None known.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : No known products of combustion. Not flammable. Not combustible.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : No special technical protective measures required. Not flammable. Not combustible.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. Use respiratory protection in the form of a CSA/NIOSH-Approved Particulate Filtering Facepiece Respirators such as an N95 respirator or equivalent when ventilation is inadequate.

6.1.2. For emergency responders

Protective equipment : Wear personal protective equipment. Use respiratory protection in the form of a CSA/NIOSH-Approved Particulate Filtering Facepiece Respirators such as an N95 respirator or equivalent when ventilation is inadequate.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain spill, then place in a labelled waste container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. In case of insufficient ventilation use respiratory protection in the form of a CSA/NIOSH- Approved Particulate Filtering Facepiece Respirators such as an N95 respirator or equivalent when ventilation is inadequate.

Methods for cleaning up : Large spill: Sweep or shovel spills into a convenient labeled waste disposal container. Small spill: Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose via a licensed waste disposal contractor in accordance with local regulations. Minimise generation of dust. Do not use water for cleaning. Ensure adequate natural or mechanical ventilation in the form local or general exhaust ventilation is in use to ensure exposure is below established regulatory limits and/or use respiratory protection in the form of a CSA/NIOSH- Approved Particulate Filtering Facepiece Respirators such as an N95 respirator or equivalent.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Do not swallow. Do not breathe dust. Handle and open container with care. When using do not eat, drink or smoke. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Good housekeeping is important to prevent accumulation of dust. Ensure adequate natural or mechanical ventilation in the form local or general exhaust ventilation is in use to ensure exposure is below established regulatory limits. If ventilation is not adequate, use respiratory protection in the form of a CSA/NIOSH- Approved Particulate Filtering Facepiece Respirators such as an N95 respirator or equivalent.

Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in well-ventilated area away from incompatible materials including acids and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Avoid any dust buildup by frequent cleaning.

Incompatible materials : Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

High Calcium Limestone	
No additional information available	
Limestone (1317-65-3)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Limestone (Calcium carbonate, Aragonite, Calcite, Marble, Vaterite)
OEL TWA	10 mg/m³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWA)	10 mg/m³ (Limestone, containing no Asbestos and <1% Crystalline silica-total dust)

High Calcium Limestone	
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Calcium carbonate (incl. Limestone, Marble)
OEL TWA	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
OEL STEL	20 mg/m³ (total)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Limestone (calcium carbonate)
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Limestone (calcium carbonate)
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Limestone (calcium carbonate)
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	30 mppcf 10 mg/m³
OEL STEL	20 mg/m³
USA - OSHA - Occupational Exposure Limits	
Local name	Calcium Carbonate (Limestone; Marble)
OSHA PEL TWA [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Quartz (14808-60-7)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Silica-Crystalline: Quartz
OEL TWA	0.025 mg/m³ (respirable particulate)
Notations and remarks	Carcinogenicity A2
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Silica - Crystalline, Quartz

Quartz (14808-60-7)	
VEMP (OEL TWA)	0.1 mg/m³ (respirable dust)
Notations and remarks	C2, EM
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Silica, Crystalline - alpha quartz
OEL TWA	0.025 mg/m³ (respirable)
Notations and remarks	ACGIH Carcinogenicity category A2; IARC group 1 carcinogen
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Silica crystaline - quartz
OEL TWA	0.025 mg/m³ (respirable particulate matter)
Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	0.025 mg/m³ (respirable fraction)
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Silica crystaline - quartz
OEL TWA	0.025 mg/m³ (respirable particulate matter)
Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Silica crystaline - quartz
OEL TWA	0.025 mg/m³ (respirable particulate matter)
Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Silica - Crystalline: Quartz
OEL TWA	0.05 mg/m³ (Trydimite removed-respirable fraction (Silica - crystalline)
Notations and remarks	Designated substance
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Silica - Crystalline: Quartz
OEL TWA	0.05 mg/m³ (Trydimite removed-respirable fraction (Silica - crystalline)
Notations and remarks	Designated substance
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Silica, Crystalline - Quartz

Quartz (14808-60-7)	
OEL TWA	0.1 mg/m³ (designated substances regulation-respirable fraction (Silica, crystalline)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Silica crystaline - quartz
OEL TWA	0.025 mg/m³ (respirable particulate matter)
Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Silica - Crystalline: Quartz
OEL TWA	0.05 mg/m³ (Trydimite removed-respirable fraction (Silica - crystalline (Trydimite removed))
Notations and remarks	Designated Chemical Substance
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	300 particle/mL (Silica - Quartz, crystalline)
USA - ACGIH - Occupational Exposure Limits	
Local name	Silica crystaline - quartz
ACGIH OEL TWA	0.025 mg/m³ (respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
ACGIH chemical category	Suspected Human Carcinogen
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Quartz (Total Dust) (Silica: Crystalline)
OSHA PEL TWA [1]	50 µg/m³ (Respirable crystalline silica)
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA) use formula: (30 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. If natural ventilation is insufficient to maintain exposures below regulatory limits, apply localized or general exhaust mechanical ventilation.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves. Industrial type work glove that offers abrasion resistance. Consult glove manufacturer's product information on material suitability and material thickness.

Eye protection:

Safety glasses with side shields

Skin and body protection:
Wear suitable protective clothing. No additional protective clothing required.

Respiratory protection:
Ensure adequate natural or mechanical ventilation in the form local or general exhaust ventilation is in use to ensure exposure is below established regulatory limits and/or use respiratory protection in the form of a CSA/NIOSH- Approved Particulate Filtering Facepiece Respirators such as an N95 respirator or equivalent.

Other information:
Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Powder.
Colour	:	White to grey
Odour	:	Odourless
Odour threshold	:	No data available
pH	:	8 – 9.2 (@ 25 °C / 77 °F)
Melting point	:	Not applicable
Freezing point	:	Not applicable
Boiling point	:	Decomposes
Flash point	:	Not applicable
Relative evaporation rate (butylacetate=1)	:	Not applicable
Flammability	:	Not flammable. Not combustible.
Vapour pressure	:	Not applicable because product is crystalline solid
Relative vapour density at 20°C / 68 °F	:	Not applicable
Relative density	:	2.68 – 2.76
Density	:	2.68 – 2.76 g/cm³
Solubility	:	Water: 6.6 mg/kg (@ 20 °C / 68 °F)
Partition coefficient n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	900 °C (1652°F) (760 mm pressure)
Viscosity, kinematic	:	Not applicable. Solid product.
Viscosity, dynamic	:	No data available
Explosive limits	:	Not explosive
Explosive properties	:	Not explosive.
Oxidising properties	:	Not oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Exposure to acids.

10.5. Incompatible materials

Strong acids. Reacts with acids to generate carbon dioxide gas.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Skin corrosion/irritation : Not classified.

Based on available data, the classification criteria are not met.

May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

pH: 8 – 9.2 (@ 25 °C / 77 °F)

Serious eye damage/irritation : Not classified.

Based on available data, the classification criteria are not met.

May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

pH: 8 – 9.2 (@ 25 °C / 77 °F)

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : May cause cancer if inhaled. Risk of cancer depends on duration and level of exposure.

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

STOT-repeated exposure : Causes damage to organs (lungs) through prolonged or repeated exposure. Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

Quartz (14808-60-7)	
STOT-repeated exposure	Causes damage to organs (lungs) through prolonged or repeated exposure.

Aspiration hazard : Not classified.

High Calcium Limestone	
Viscosity, kinematic	Not applicable. Solid product.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms : May cause cancer. Causes damage to lungs through prolonged or repeated exposure.
Other information : Likely routes of exposure: ingestion, inhalation and eye contact.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No known significant effects or critical hazards.

12.2. Persistence and degradability

High Calcium Limestone	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

High Calcium Limestone	
Partition coefficient n-octanol/water	Not applicable
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents and container to waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with DOT/ TDG/ IMDG/ IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

TDG
Transport hazard class(es) (TDG) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1 Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. US State regulations

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

Component	State or local regulations
Limestone(1317-65-3)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

Component	State or local regulations
Quartz(14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 2025-01-13

Other information : None.

Prepared by : Nexreg Compliance Inc.
www.Nexreg.com

Full text of H-statements	
Carc. 1A	Carcinogenicity, Category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

Indication of changes:
Identification.

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2023