FF105 Safety Data Sheet

ORETE CONCRETE CANADA

Version: V2.0.0.1

Creation Date: 2023/02/15 Revision Date: 2023/02/15 For Hazardous Materials, or Dangerous Goods, Incident, Leak, Spill, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

USA: 1-800-424-9300

CANADA: 1-703-527-3887

SECTION 1: PRODUCT IDENTIFICATION

Relevant identified uses: Floor material for construction

Product Name: Orete FF105 Self-Leveling Concrete Overlay

SECTION 2: HAZARD IDENTIFICATION

Classification of the chemical:

Hazard Class:

Skin corrosion : Category 2
Serious eye damage : Category 1
Skin sensitization : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Hazardous to the Aquatic Environment -

Short-term (Acute) Hazard Category 3

Hazardous to the Aquatic Environment -

Long-term (Chronic) Hazard Category 3

Hazard Pictogram:







Signar Word: Danger

Hazard Statements: H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H350 May cause cancer by inhalation.

H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.

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Precaution

Prevention:

Statements:

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 skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

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

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

Response:

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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

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

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

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

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

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

P405 Store locked up. Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards: None known.

SECTION 3: INFORMATION ON HAZARDOUS INGREDIENTS

Substance / Mixture:

Ingredients	Typical %	EC No.	CAS#
Cement, portland, chemical	<45	266-043-4	65997-15-1
Quartz	<30	238-878-4	14808-60-7
Pyrite (FeS2)	Commercial Secret		
Limestone	<10	215-279-6	1317-65-3
CALCIUM SULFATE HEMIHYDRATE	<5	603-783-2	13397-24-5
Diiron trioxide	<3	215-168-2	1309-37-1
Silicon Dioxide	<3	-	71187-19-4
2,6-di-tert-butyl-p-cresol	Commercial secrete	Commercial secrete	Commercial secrete
Lithium carbonate	Commercial secrete	Commercial secrete	Commercial secrete
Sodium gluconate	Commercial secrete	Commercial secrete	Commercial secrete
Poly[oxycarbonyloxy-1,4- phenylene(1- methylethylidene)-1,4- phenylene]	Commercial secrete	Commercial secrete	Commercial secrete



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SECTION 4: FIRST AID MEASURES

General Advice: Immediate medical attention is required. Show this safety data

sheet (SDS) to the doctor in attendance.

If Inhaled: Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth

to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

If Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and

plenty of water. Immediate medical treatment is necessary as untreated wounds

from corrosion of the skin heal slowly and with difficulty.

If Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician if feel uncomfortable.

If Swallowed Never give anything by mouth to an unconscious person. Call a physician or

Poison Control Center immediately.

If Swallowed Ensure that medical personnel are aware of the substance involved. Take

precautions to protect themselves and prevent spread of contamination.

Most important

symptoms and

effects, both acute

and delayed:

Substance accumulation, in the human body, may occur and may cause some

concern following repeated or long-term occupational exposure.

Notes to Physician: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing

Media:

Use extinguishing media suitable for surrounding area.



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Unsuitable

There is no restriction on the type of extinguisher which may be used.

Extinguishing Media:

Further Information Collect contaminated fire extinguishing water separately. This must not be

discharged into drains. Fire residues and contaminated fire extinguishing water

must be disposed of in accordance with local regulations.

Advice for fire fighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions,

protective equipment

and emergency

Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak

Use personal protective equipment, do not breathe dust/fume.

Environmental

Precautions:

procedures:

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

Methods and

Materials for

Containment and

Clean up:

Cut off the source of the leak as much as possible.

Keep leaks in a ventilated place.

Isolation of contaminated areas and restrictions on access.

It is recommended that emergency personnel wear dust masks.

Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container

and move the container away from the leak.

Adhered or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe

Handling

Handling is performed in a well ventilated place.

Wear suitable protective equipment.

. Avoid contact with skin and eyes.

Keep away from heat/sparks/open flames/ hot surfaces.



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Conditions for Safe

Storage.

Keep containers tightly closed. Keep in a well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces.

Store away from incompatible materials and foodstuff containers.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Component	Typical %	EC No.	CAS#	CAS#	CAS#
Quartz	GBZ 2.1-2019	Total Dust: Respiratory Dust:	1 0.7	Silicosis	G1 (Crystalline form)
Limestone	GBZ 2.1-2019	Total Dust: Respiratory Dust:	8 4	Eye, skin and respiratory system damage	-

Biological Limit

Values

No relevant regulations

Biological Limit

Values

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 300 series standard Determination of toxic substances in workplace air.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation

location.

Set up emergency exit and necessary risk-elimination area.

Handle in accordance with good industrial hygiene and safety practice.

Respiratory

protection

Must wear appropriate personal respiratory protective equipment.

Hand protection

Must wear acid and alkali resistant chemical protective gloves.



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Eye Contact Must wear appropriate anti-corrosion goggles.

Skin and Body Must wear acid and alkali resistant chemical protective clothing.

Protection

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorful powder

Color: gray

Odor:

Odor Threshold:

No pungent order

No data available

pH:

Not applicable

Melting point/range / Freezing point: > 800

Boiling point/boiling range: Solid melting point > 800

Flash point : Not applicable
Evaporation rate : No data available
Flammability (solid, gas): No data available

Upper explosion limit / Upper

flammability limit [%(v/v)]: Not combustible

Lower explosion limit / Lower

flammability limit [%(v/v)]:

Vapor pressure:

No data available

Vapor density (Air=1):

No data available

Relative Density (Water=1): 2.2

Solubility: Slightly soluble in water

noctanol/waterPartition coefficient : No data available Auto-ignition temperature (°C) : Not combustible

Decomposition temperature (°C): > 800

Viscosity: Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Contact with incompatible substances can cause decomposition or

other chemical reactions.

Chemical stability: Stable under proper operation and storage conditions.

Possibility of hazardous reactions:

No data available

Conditions to avoid: Incompatible materials, heat, flame and spark.



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Incompatible materials: Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur,

phosphorus, boron, reducing agents, metallic acetylenes and

metallic carbonates.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: TOXILOGICAL INFORMATION

Acute toxicity

Component	LD₅₀(oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Lithium carbonate	525mg/kg(Rat)	No information available	No information available
2,6-di-tert-butyl-p-cresol	890mg/kg(Rat)	No information available	No information available

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	
Cement, portland, chemicals	Not Listed	Not Listed	
Quartz	Category 1	Category K	
Pyrite (FeS2)	Not Listed	Not Listed	
Limestone	Not Listed	Not Listed	
CALCIUM SULFATE HEMIHYDRATE	Not Listed	Not Listed	
Diiron trioxide	Category 3	Not Listed	
Silicon dioxide	Not Listed	Not Listed	
2,6-di-tert-butyl-p-cresol	Category 3	Not Listed	
Lithium carbonate	Not Listed	Not Listed	
Sodium gluconate	Not Listed	Not Listed	
Poly[oxycarbonyloxy-1,4- phenylene(1-methylethyli dene)-1,4-phenylene]	Not Listed	Not Listed	



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Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation(Category 2)

Serious eye damage/eye irritation

Causes serious eye damage(Category 1)

Germ cell mutagenicity

Based on available information, the classification

criteria are not met.

Reproductive toxicity

Based on available information, the classification

criteria are not met.

STOT-single exposure

May cause respiratory irritation(Category 3

(Respiratory irritation))

Respiratory or skin sensitization

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

Skin sensitization

May cause an allergic skin reaction(Category 1)

Respiratory sensitization

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

STOT-repeated exposure

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

Aspiration toxicity

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

SECTION 12: ECOLOGICAL INFORMATION

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Lithium carbonate	LC ₅₀ : 30.3mg/L (96h)(Fish)	EC ₅₀ : 33.2mg/L (48h)(Crustaceans)	No information available
Diiron trioxide	No information available	EC ₅₀ : > 100mg/L (48h)(Crustaceans)	No information available
2,6-di-tert-butyl-p-cresol	LC ₅₀ : 0.199mg/L (96h)(Fish)	EC ₅₀ : 0.48mg/L (48h)(Crustaceans)	ErC ₅₀ : >0.24mg/L (72h)(Algae)

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Lithium carbonate	NOEC: 17.35mg/L(Fish)	No information available	No information available
2,6-di-tert-butyl-p-cresol	NOEC: 0.053mg/L(Fish)	NOEC :	NOEC: 0.24mg/L(Algae)
		0.069mg/L(Crustaceans)	



| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Lithium carbonate	NOEC: 17.35mg/L(Fish)	No information available	No information available
2,6-di-tert-butyl-p-cresol	NOEC: 0.053mg/L(Fish)	NOEC:	NOEC: 0.24mg/L(Algae)
		0.069mg/L(Crustaceans)	

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Cement, portland, chemicals	High	High
Diiron trioxide	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Cement, portland, chemicals	Low	Log Kow=-2.2002
Diiron trioxide	Low	Log Kow=0.5294

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Cement, portland, chemicals	Low	6.124
Diiron trioxide	Low	23.74

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]	
Cement, portland,	Not available	

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chemicals	
Quartz	Not available
Pyrite (FeS2)	Not available
Limestone	Not available
CALCIUM SULFATE HEMIHYDRATE	Not available
Diiron trioxide	Not applicable
Silicon dioxide	Not available
2,6-di-tert-butyl-p-cresol	Not available
Lithium carbonate	Not available
Sodium gluconate	Not available
Poly[oxycarbonyloxy-1,4- phenylene(1-methylethyli dene)-1,4-phenylene]	Not available

SECTION 13: DISPOSAL CONSIDERATION

Waste chemicals Before disposal should refer to the relevant national and local laws

and regulation. Recommend the use of incineration disposal.

Contaminated Containers may still present chemical hazard when empty. Keep

Packaging away from hot and ignition source of fire. Return to supplier for

recycling if possible.

Disposal Containers may still present chemical hazard when empty. Keep

Recommendations away from hot and ignition source of fire. Return to supplier for

recycling if possible.

SECTION 14: TRANSPORTATION INFORMATION

Transporting Label Not Applicable

transport

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ICAO / IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

UN-ADR Not regulated as a dangerous good

Methods of packing Packaging as recommended by manufacturer

Precautions for Transport vehicles should be equipped with the appropriate variety

and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking

whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting

requirements.

SECTION 15: REGULATORY INFORMATION

International chemical inventory

Component	EC	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
	inventory								
Cement, portland, chemicals	1	1	×	1	1	×	1	√	×
Quartz	√	√	1	√	√	1	1	√	1
Pyrite (FeS2)	√	1	×	1	1	1	1	1	×
Limestone	√	1	×	1	1	1	1	1	×
CALCIUM SULFATE HEMIHYDRATE	×	×	√	√	1	×	×	×	×
Diiron trioxide	√	1	1	√	√	1	1	√	1
Silicon dioxide	×	×	×	1	×	1	×	×	×
2,6-di-tert-butyl-p-cresol	√	1	1	1	1	1	1	1	1
Lithium carbonate	√	1	1	√	1	1	1	1	1
Sodium gluconate	√	1	V	1	1	1	1	1	1
Poly[oxycarbonyloxy-1,4 -phenylene(1-methylethy lidene)-1,4-phenylene]	×	×	×	1	√	1	×	1	√



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[EC inventory] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

[KECI] Korea Existing Chemicals Inventory

[AIICS] Australian. Inventory of Industrial Chemical (AIICS)
[ENCS] Japan Inventory of Existing & New Chemical Substances

SECTION 16: OTHER INFORMATION

Creation Date 2023/02/15

Revision Date 2023/02/15

Reasions for revision -

Material Safety Data Sheet Disclaimer for Orete Canada

This Safety Data Sheet (SDS) was prepared according to GB/T17519-2013 and GB/T16483-2008. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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