## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015) Issue date: 2023-03-03 Revision date: 2023-04-21 Version: 2.0

SECTION 1: Identification	
1.1. Product identifier	
Product form Product name Other means of identification	<ul> <li>Mixture</li> <li>Ready-Mix Concrete</li> <li>Concrete, Portland Cement Concrete, Ready Mix Grout, Permeable Concrete, Shotcrete, Fiber Reinforced Concrete</li> </ul>
1.2. Recommended use and restriction	ns on use
Recommended uses and restrictions Restrictions on use	<ul><li>Industrial uses in the construction of buildings and pavement.</li><li>Product for industrial use only, Keep out of reach of children.</li></ul>
1.3. Supplier	
<b>Manufacturer</b> Dutch Brothers Ready-Mix 3777 Westminster Drive. London, ON 10 Elm Street, Tillsonburg, ON	519-652-2229 (London) 519-842-8491 (Tillsonburg)
1.4. Emergency telephone number	
Emergency number	<ul> <li>1-613-996-6666 CANUTEC (Call Collect or *666 Cellular) 24-hours</li> <li>Toll-free 1-888-CAN-UTEC (226-8832) or 613-992-462 (Canada and US only)</li> <li>Health &amp; Safety Centre – 24 Hours – 1-877-202-0008</li> <li>Poison Control: 1-844-764-7669</li> </ul>

## **SECTION 2: Hazard identification**

#### **Classification (GHS CA)**

Skin Corrosion - Category 1	H:
Serious Eye Damage — Category 1	H
Skin Sensitizer — Category 1	H:
Carcinogenicity — Category 1A	H:
Specific Target Organ Toxicity — Single Exposure — Category 3	H:
Specific Target Organ Toxicity — Repeated Exposure — Category 1	H:

- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H350 May cause cancer (Inhalation)
- H335 May cause respiratory irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.(Inhalation) Causes severe damage to the respiratory tract

Health Hazards Not Otherwise Classified — Category 1

2.2. GHS Label elements, including precautionary statements

#### **GHS-CA** labelling

Hazard pictograms (GHS-CA)

Signal word (GHS CA)

Hazard statements (GHS-CA)



H314 - Causes severe skin burns and eye damage.
 H317 - May cause an allergic skin reaction.
 H335 - May cause respiratory irritation.
 H350 - May cause cancer.

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

	H372 - Causes damage to organs through prolonged or repeated exposure.
	Causes severe damage to the respiratory tract
Precautionary statements (GHS-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, fume, gas, mist, spray, vapours.
	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.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P280 - Wear eye protection, face protection, protective clothing, protective gloves.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.
	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 .
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P363 - Wash contaminated clothing before reuse.
	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.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P312 - Call a POISON CENTER or doctor if you feel unwell.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS CA)

Not applicable

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Calcium oxide	Lime / Quicklime / CALCIUM OXIDE / Quicklime (CaO) / Calcium oxide (CaO) / Lime (calcium oxide)	CAS-No.: 1305-78-8	5 – 30
Cement, portland, chemicals	Portland cement / Silicate, portland cement / Cement Portland / Cement kiln dust / Cement (Portland)	CAS-No.: 65997-15-1	10 – 30

# Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Name	Chemical name / Synonyms	Product identifier	%
Slags, ferrous metal, blast furnace	Slags, ferrous metal, blast furnace (The fused substance formed by the action of a flux upon the gangue of the iron-bearing materials charged to a blast furnace and upon the oxidized impurities in the iron produced. Depending upon the particular blast furnace operation, the slag is composed primarily of sulfur and oxides of aluminum, calcium, magnesium, and silicon.) / Slags (ferrous metal) blast furnace	CAS-No.: 65996-69-2	10 – 30
Ashes, residues	Ashes (residues) / Ceramic microspheres / Coal ash by- product / Furnace residues	CAS-No.: 68131-74-8	10 – 30
Quartz	Quartz (SiO2) / Silica, crystalline, quartz / Crystalline silica, quartz / .alphaQuartz / Silica, crystalline, .alphaquartz / QUARTZ / Crystalline silica in the form of quartz / Quartz, silica / Quartz (respirable fraction) / Silica dust / Silica, crystallinealpha.quartz / Silica, .alphaquartz / Silicon dioxide / Silica, quartz / Silica, crystalline / Quartz (crystalline silica) / Silica dust, crystalline / QUARTZ POWDER / Silica, crystalline (quartz)	CAS-No.: 14808-60-7	1 – 10
Limestone	Limestone (sedimentary rock) / Calcium carbonate / Marble / Acetate, 4-methyl-2-propyl-2H- tetrahydropyran-4-yl / Ground limestone / Natural calcium carbonate / Limestone (A noncombustible solid characteristic of sedimentary rock. It consists primarily of calcium carbonate.) / Chalk / Calcite / Limestone ground	CAS-No.: 1317-65-3	1-5

Comments

: \*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: 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.

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

First-aid measures after ingestion	: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.
4.2. Most important symptoms and eff	ects (acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact	<ul> <li>Causes severe damage to the respiratory tract. May cause respiratory tract irritation.</li> <li>Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.</li> </ul>
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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 through prolonged or repeated exposure (Inhalation).
4.3. Immediate medical attention and s	special treatment, if necessary
Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures	
5.1. Suitable extinguishing media	
Suitable extinguishing media :	Use extinguishing media appropriate for surrounding fire.
5.2. Unsuitable extinguishing media	
Unsuitable extinguishing media :	Do not use water.
5.3. Specific hazards arising from the hazardo	ous product
Fire hazard :	Products of combustion may include, and are not limited to: oxides of carbon. Aluminium oxides. Hydrogen gas. Fluoride compounds.
5.4. Special protective equipment and precau	tions for fire-fighters
Protection during firefighting :	Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equip	ment and emergency procedures	
General measures Personal Precautions, Protective Equipment and	<ul> <li>Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.</li> <li>Do not touch or walk on the spilled product.</li> </ul>	
Emergency Procedures 6.2. Methods and materials for containmen	t and cleaning up	
For containment	: Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.	
Methods for cleaning up	: Dike and contain spill. Sweep or shovel spills into appropriate container for disposal. Provide ventilation.	
6.3. Reference to other sections		

For further information refer to section 8: "Exposure controls/personal protection"

# Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Do not swallow. Wear appropriate PPE (see Section 8). This product must only be handled by properly trained personnel Handle and open container with care. When using do not eat, drink or smoke. Use only in well ventilated areas.</li> <li>Contaminated work clothing should not be allowed out of the workplace. Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.</li> </ul>
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Keep out of the reach of children. Protect from moisture. Store in a secure location. Do not store in unlabelled containers. Keep away from incompatible materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Cement, portland, chemicals (65997-	·15-1)
USA - ACGIH - Occupational Exposure L	mits
Local name	Portland cement
ACGIH OEL TWA	1 mg/m <sup>3</sup> (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm func; resp symptoms; asthma. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2020
Calcium oxide (1305-78-8)	
USA - ACGIH - Occupational Exposure L	mits
ACGIH OEL TWA	2 mg/m <sup>3</sup>
Quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure L	mits
Local name	Silica crystaline - quartz
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (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 2022
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls

safety showers.Avoid release to the environment.

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

#### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.

#### Eye protection:

Wear eye/face protection

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

#### 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

: Liquid
: Semi-solid. granular paste
: Grey/white
Odourless
: No data available
: >9
: No data available
: >1000 °C
: No data available
: No data available
: No data available
: Not flammable
: No data available
: No data available
: 1.5 – 2.9 (water=1)
: Slightly soluble in water.
Water: <1 %
: No data available
: No data available
: No data available
0 hPa (at 20 °C)

# Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Ashes, residues (68131-74-8)	
Boiling point	1800 – 2000 °C
Quartz (14808-60-7)	
Boiling point	2230 °C
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity	
Reactivity	: No dangerous reactions known under normal conditions of use. Cementitious materials react slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: No specific data.
Incompatible materials	: Strong acids. ammonium salts. Aluminium. Metals. Fluoride compounds.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon.
Hardening time:	: No additional information available

# **SECTION 11: Toxicological information**

11.1. Information on toxicological effects	
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified. Not classified. Not classified.
Calcium oxide (1305-78-8)	
LD50 oral rat	500 mg/kg
LC50 inhalation rat	> 6.04 mg/l/4h
ATE CA (oral)	500 mg/kg bodyweight
Slags, ferrous metal, blast furnace (65996-69-	2)
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 4000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat	> 5.235 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Ashes, residues (68131-74-8)	•
LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation :	Causes severe skin burns. pH: > 12
Calcium oxide (1305-78-8)	
рН	12.5 (saturated solution)
Serious eye damage/irritation :	Causes serious eye damage. pH: > 12

# Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Calcium oxide (1305-78-8)	
рН	12.5 (saturated solution)
Germ cell mutagenicity :	May cause an allergic skin reaction. Not classified. May cause cancer by inhalation
Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	Known Human Carcinogens
· · · · · · · · · · · · · · · · · · ·	Not classified. May cause respiratory irritation.
Cement, portland, chemicals (65997-15-1)	
STOT-single exposure	May cause respiratory irritation.
Calcium oxide (1305-78-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	Causes damage to organs through prolonged or repeated exposure (Inhalation)
Quartz (14808-60-7)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard :	Not classified.
Cement, portland, chemicals (65997-15-1)	
Animal studies and expert judgment for classification	False
Calcium oxide (1305-78-8)	
Animal studies and expert judgment for classification	False
Slags, ferrous metal, blast furnace (65996-69-	2)
Animal studies and expert judgment for classification	False
Ashes, residues (68131-74-8)	
Animal studies and expert judgment for classification	False
Quartz (14808-60-7)	
Animal studies and expert judgment for classification	False
Limestone (1317-65-3)	
Animal studies and expert judgment for classification	False
	Causes severe damage to the respiratory tract. May cause respiratory tract irritation. Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.
	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion :	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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 through prolonged or repeated exposure (Inhalation).
Other information :	Likely routes of exposure: ingestion, inhalation, skin and eye.

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

## **SECTION 12: Ecological information**

## 12.1. Toxicity

LOEC (chronic)

Hazardous to the aquatic environment, short-term : (acute)	May cause long-term adverse effects in the aquatic environment. Not classified. Not classified.
Calcium oxide (1305-78-8)	
LC50 - Fish [1]	1070 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
Slags, ferrous metal, blast furnace (65996-69-2)	
LC50 - Fish [1]	> 100 g/l Test organisms (species): Leuciscus idus
LC50 - Fish [2]	> 1000 g/l Test organisms (species): Leuciscus idus
NOEC (chronic)	1563 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

5000 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

# 12.2. Persistence and degradability

Portland Cement, Ready-Mix Concrete		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Portland Cement, Ready-Mix Concrete		
Bioaccumulative potential	Not established.	
Calcium oxide (1305-78-8)		
BCF - Fish [1]	(no bioaccumulation)	
12.4. Mobility in soil		

### No additional information available

12.5. Other adverse effects	
Ozone	: Not classified.
Other information	: No other effects known.

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Product/Packaging disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal
Additional information	regulations. : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# SECTION 14: Transport information

In accordance with TDG

### Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (TDG)	: Not applicable
14.3. Transport hazard class(es)	
TDG Transport hazard class(es) (TDG)	: Not applicable
14.4. Packing group	
Packing group (TDG)	: 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.
TDG No data available	

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. National regulations

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

### **SECTION 16: Other information**

Issue date Revision date : 04-22-2023 : 04-21-2023

Other information Prepared by : None.

: Nexreg Compliance Inc. www.Nexreg.com



## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Safety Data Sheet (SDS), Canada - Nexreg 2022

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