



## Flex R20

---

### Section 1. Identification

**Common name:** Flex R20

**Synonym:** Not applicable

**Material uses:** Unmodified mortar

**Supplier / Manufacturer:**

**La Margna inc**

412 avenue Saint-Sacrement

Québec

Québec, Canada, G1N 3Y3

Phone: 1-800-463-6850

**In case of emergency:**

**CANUTEC: (613) 996-6666 (Canada)**

**Chemtec: (800) 424-9300 (United States)**

---

### Section 2. Hazards identifications

**Classification:**



Skin corrosion, Category 1

Serious eye damage, Category 1

Carcinogenicity, Category 1A

Specific target organ toxicity - Single exposure (Respiratory tract irritation), Category 3

Specific target organ toxicity - Repeated exposure, Category 1

**Signal word:** Danger

**Hazard statements:**

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H350: May cause cancer.

H372: Causes damage to organs through prolonged or repeated exposure.

**Precautionary 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/fumes/gas/mist/vapours/spray.

P264: Wash exposed and/or contaminated area thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

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

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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: Call a POISON CENTER or doctor/physician.

P310: Immediately call a POISON CENTER or a doctor.

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

P321: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

P363: Wash contaminated clothing before reuse.

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

P405: Store locked up.

P501: Dispose of contents / container by a local waste disposal company according to regional regulations.

---

### Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Portland cement	65997-15-1	30 - 60
Crystalline silica	14808-60-7	15 - 40
Aluminum oxide	1344-28-1	5 - 10
Iron oxide	1309-37-1	1 - 5
Disodium oxide	1313-59-3	1 - 5
Dipotassium oxide	12136-45-7	1 - 5
Calcium oxide	1305-78-8	1 - 5
Calcium diformate	544-17-2	0.5 - 1.5

---

### Section 4. First aid measures

#### Description of first aid if required:

An exposure of duration on the wet cement, or on the humid zones of the body, perhaps on the serious and irreversible lesions of the skin, the eyes, the respiratory and digestive tracts.

#### Eye contact:

Rinse eyes thoroughly with water for at least 15 minutes.

#### Skin contact:

Wash with plenty of water and soap.

#### Inhalation:

Bring the conscious victim to fresh air.

#### Ingestion:

Rinse mouth. Do NOT induce vomiting.

#### Indication of immediate medical attention and special treatment needed, if necessary:

Treat according to symptoms. Show this safety data sheet to the doctor in attendance.

#### Most important acute symptoms and effects:

Causes severe skin burns. Causes serious eye damage. May cause respiratory irritation.

#### Most important delayed symptoms and effects:

May cause cancer. Causes damage to organs through prolonged or repeated exposure.

---

## Section 5. Fire fighting measures

### Flammability of the product:

Non-flammable

### Flash point:

N/A

### Auto-ignition temperature:

N/A

### Products of combustion:

Not applicable

### Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and appropriate protective clothing.

### Suitable extinguishing media:

Use means of extinction the most suited to the surrounding materials.

---

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

**For non emergency personnel:** Evacuate the area.

**For emergency personnel:** Splash goggles, full suit, chemical resistant gloves. A self-contained breathing apparatus is recommended to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

### Environmental precautions:

Do not let product enter drains

### Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

---

## Section 7. Handling and storage

### Precautions in Handling:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

### Precautions in Storage:

Keep container tightly closed in a cool, dry and well-ventilated place.

## Section 8. Exposure Controls, Personal Protections

### Control parameters:

Component	CAS	Value	Control parameters	Basis
Crystalline silica	14808-60-7	PEL	0.05 mg/m <sup>3</sup> (inhalable fraction)	OSHA
		TWA	0.025 mg/m <sup>3</sup> (inhalable fraction)	ACGIH
		TWA	0.1 mg/m <sup>3</sup> (inhalable fraction)	CNESST
Aluminum oxide	1344-28-1	TWA	5 mg/m <sup>3</sup> (inhalable fraction)	OSHA
		TWA	10 mg/m <sup>3</sup>	ACGIH
		TWA	15 mg/m <sup>3</sup>	OSHA
Iron oxide	1309-37-1	TWA	5 mg/m <sup>3</sup> (inhalable fraction)	CNESST
		TWA	5 mg/m <sup>3</sup>	ACGIH
Portland cement	65997-15-1	TWA	5 mg/m <sup>3</sup> (inhalable fraction)	CNESST
		TWA	10 mg/m <sup>3</sup> (inhalable fraction)	CNESST
		TWA	10 mg/m <sup>3</sup>	ACGIH
Calcium oxide	1305-78-8	TWA	2 mg/m <sup>3</sup>	CNESST

### Engineering controls:

Use mechanical exhaust or laboratory fumehood to avoid exposure.

### Personal protective equipment:

**Eyes:** Wear safety glasses.

**Skin/body:** Wear a lab coat or any other appropriate protective clothing.

**Respiratory:** If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

**Hands:** Wear chemical resistant protective gloves.

---

## Section 9. Physical and chemical properties

**Physical state:** Solid

**Color:** Grey

**Odour:** Odorless

**Melting point/Freezing point:** Data not available

**Boiling point:** Data not available

**Appearance:** Powder

**Flash point:** Data not available

**Auto-ignition temperature:** Data not available

**pH:** Data not available

**Solubility:** Soluble

**Density:** 3.0 - 3.5

---

## Section 10. Stability and reactivity

**Chemical stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Incompatible materials, moisture

**Incompatible materials:** Strong oxidizing agents, acids

**Hazardous decomposition products:** None known

---

## Section 11. Toxicological information

**Acute toxicity:**

Component	CAS	Value
Aluminum oxide	1344-28-1	DL <sub>50</sub> Oral: Rat > 3600 mg/kg
Calcium diformate	544-17-2	DL <sub>50</sub> Oral: Rat = 2560 mg/kg

**Skin corrosion/irritation:**

Portland cement: May cause skin irritation.

Disodium oxide: Causes severe skin burns and eye damage.

Dipotassium oxide: Causes severe skin burns and eye damage.

Calcium oxide: Causes severe skin burns and eye damage.

**Serious eye damage/irritation:**

Portland cement: Causes serious eye damage.

Disodium oxide: Causes serious eye damage.

Calcium oxide: Causes serious eye damage.

Calcium diformate: Causes serious eye damage

**Respiratory or skin sensitisation:**

Not applicable

**Gem cell mutagenicity:**

Not applicable

**Carcinogenicity:**

Crystalline silica: Suspected of causing cancer

**Reproductive toxicity:**

Not applicable

**STOT- Single exposure:**

Portland cement: May cause respiratory irritation.

Disodium oxide: May cause respiratory irritation.

Calcium oxide: May cause respiratory irritation

**STOT- repeated exposure:**

Crystalline silica: Causes damage to organs through prolonged or repeated exposure cause the hazard (lungs)

**Aspiration hazard:**

Not applicable

**Information on likely route of exposure:**

Not applicable

---

**Section 12. Ecological information****Ecological data for aquatic environments:**

Component	CAS	Value
Calcium oxide	1305-78-8	CL <sub>50</sub> - Cyprinus carpio 1.070 mg/L - 96h

**Persistence and degradability:**

Data not available

**Bioaccumulative potential:**

Data not available

**Mobility in soil:**

Data not available

**Other adverse effects:**

Data not available

---

**Section 13. Disposal considerations****Waste disposal:**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste.

---

**Section 14. Transportation information**

No TDG/DOT/IMDG/IATA Classification

---

**Section 15. Regulatory information****General product information:**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the required information.

---

## Section 16. Additional information

**Date of issue:**

2019-10-28

**Version:**

1.00

**Elaborated by:**

Toxyscan inc.

**Notice to reader:**

To the best of our knowledge, the information contained herein is accurate. However, neither Toxyscan inc., nor the supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Références:**

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *GHS (rev.7) (2017) globally harmonized system of classification and labeling of chemicals - united nations*