



1 Identification of substance:

· **Product details:**

- **Trade name:** **LEGRIT 23 CD**
- **Application of the substance / the preparation:** Refractory product
- **Manufacturer/Supplier:** RHI Canada Inc.
4355 Fairview Street
Burlington, Ontario L7L 2A4
Canada
Tel 905-639-8660
- **Information department:** MSDS Technical Information
Mail: msds@rhi-ag.com
- **Emergency information:** Tel: +43 50213 5361
Fax: +43 50213 5364

2 Composition/Data on components:

· **Chemical characterization**

- **Description:** Unshaped product for refractory use on basis of

65997-16-2	high alumina cement	30-40%
1302-93-8	alumina silicate	20-30%
1332-58-7	Clay	10-20%
1344-28-1	aluminium oxide non-fibrous	10-20%

· **Dangerous components:**

14808-60-7	Quartz (SiO ₂)	2.5-5.0%
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3 Hazards identification

- **Medical conditions aggravated by exposure to the product:** Asthma, chronic lung disease, and skin irritation.
- **Carcinogenicity Information:** Crystalline silica is listed by IARC as a Group 1 Carcinogen "sufficient evidence of carcinogenicity in humans", and is listed by NTP as K, "Known To Be A Human Carcinogen".
- **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **HMIS Classification**

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Protective equipment:** Wear self-contained breathing apparatus

6 Accidental release measures

- **Person-related safety precautions:** see section 8
- **Measures for environmental protection:** see section 12

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2008

Reviewed on 07/14/2008

Trade name: **LEGRIT 23 CD**

(Contd. of page 1)

- **Measures for cleaning/collecting:** Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
 - **Information about protection against explosions and fires:** The product is not flammable
- **Storage**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not applicable
 - **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

1332-58-7 Clay (10-20%)

EL (Canada)	2 mg/m ³
PEL (USA)	15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	2* mg/m ³ E; as respirable fraction

1344-28-1 aluminium oxide non-fibrous (10-20%)

EL (BC) (Canada)	10 mg/m ³ as dust
TWAEV (ON) (Canada)	10 mg/m ³ (total dust)
PEL (USA)	15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Short-term value: 1.5* mg/m ³ *as resprable fraction
TLV (USA)	(10) mg/m ³ (E)

14808-60-7 Quartz (SiO₂) (2.5-5.0%)

EL (BC) (Canada)	0.025 mg/m ³ ACGIH A2; IARC 1
TWAEV (ON) (Canada)	0.1mg/m ³ (respirable)
PEL (USA)	see Quartz listing
REL (USA)	0.05* mg/m ³ *respirable dust
TLV (USA)	0.025* mg/m ³ *as respirable fraction

(Contd. on page 3)

CDN

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2008

Reviewed on 07/14/2008

Trade name: **LEGRIT 23 CD**

(Contd. of page 2)

Additional Occupational Exposure Limit Values for possible hazards during processing:

1344-95-2 Silicic acid, calcium salt

EL (BC) (Canada)	10 mg/m ³
TWAEV (ON) (Canada)	10 mg/m ³ (total dust)
PEL (USA)	15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	10 mg/m ³ (e)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

· **Respiratory protection**

NIOSH approved respirators selected in accordance with the applicable CSA Standard.Z94.4-93 should be used if dust is present.

A respiratory protection program should be implemented if exposure exceeds the American Conference of Governmental industrial Hygienists (ACGIH) Time Weighted Average(TWA)

Filter P100

· **Protection of hands:**

Leather gloves
Protective gloves

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

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-

· **Eye protection:**

Safety glasses with side shields

· **Body protection:**

Protective work clothing.

9 Physical and chemical properties:

· **General Information**

· Form:	Powder
· Color:	Dark
· Odor:	Characteristic

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· **Dangerous reactions**

No dangerous reactions known

· **Dangerous products of decomposition:**

No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:**

Irritant to skin and mucous membranes.

· **on the eye:**

irritant effect

· **Allergic reaction:**

No known allergic reaction.

· **Additional toxicological information:**

Irritant

(Contd. on page 4)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2008

Reviewed on 07/14/2008

Trade name: **LEGRIT 23 CD**

Carcinogenic if inhaled.

(Contd. of page 3)

12 Ecological information:

- **General notes:** Do not allow large quantities of undiluted product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
 - **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Can be entirely recycled in state at time of supply.
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
 - **Hazard class:** -
 - **TDG class:** -
- **Maritime transport IMDG:**
 - **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to available informations.

15 Regulations

- **National regulations**
 - **WHMIS**

D2A - Very toxic material causing other toxic effects



- **Additional classification according to Decree on Hazardous Materials**

Class D - Division 2
 PRODUCT MAY CONTAIN CRYSTALLINE SILICA, an IARC and NTP listed cancer agent. Prolonged or repeated inhalation of dust from products containing crystalline silica can cause silicosis or cancer.

- **Cancerogenity categories**

· TLV (Threshold Limit Value established by ACGIH)		
1332-58-7	Clay	A4
1344-28-1	aluminium oxide non-fibrous	A4
14808-60-7	Quartz (SiO ₂)	A2

- **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Risk phrases:**

May cause cancer by inhalation.
 Irritating to eyes, respiratory system and skin.
 Also harmful: danger of serious damage to health by prolonged exposure through inhalation.

- **Safety phrases:**

Do not breathe dust.
 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/14/2008

Reviewed on 07/14/2008

Trade name: LEGRIT 23 CD

(Contd. of page 4)

*Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately.
If swallowed, seek medical advice immediately and show this container or label.*

Use only in well-ventilated areas.

In case of accident by inhalation: remove casualty to fresh air and keep at rest

If swallowed, rinse mouth with water (only if the person is conscious)

· Special labeling of certain preparations:

NIOSH approved respirators selected in accordance with the applicable CSA Standard.Z94.4-93 should be used if dust is present.

A respiratory protection program should be implemented if exposure exceeds the American Conference of Governmental industrial Hygenists (ACGIH) Time Weighted Average(TWA)

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Contact:

for Canada:

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· * Data compared to the previous version altered.

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