

1 Identification of substance:

· **Product details:**

- **Trade name:** **SPEED-D 65 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

1302-93-8	alumina silicate	60-70%
1344-28-1	aluminium oxide non-fibrous	20-30%
69012-64-2	amorphous silica	5.0-10%
1302-76-7	alumina silicate (kyanite)	2.5-5.0%
65997-16-2	high alumina cement	2.5-5.0%

· **Dangerous components:**

14808-60-7	Quartz (SiO ₂)	0.5-1%
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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

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- **Measures for environmental protection:** see section 12
- **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:

1344-28-1 aluminium oxide non-fibrous (20-30%)

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)

69012-64-2 amorphous silica (5.0-10%)

EL (BC) (Canada)	4* 1.5** mg/m ³ *total; **respirable
TWAEV (ON) (Canada)	0.05 mg/m ³ (respirable)
TLV (USA)	TLV withdrawn

14808-60-7 Quartz (SiO₂) (0.5-1%)

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

7727-43-7 barium sulphate, natural (0.1-0.5%)

EL (Canada)	10 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)	10 mg/m ³ E

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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:**

· **Eye protection:**

Safety glasses with side shields

· **Body protection:**

Protective work clothing.

9 Physical and chemical properties:

· **General Information**

· Form:	Solid.
· 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

· **Additional toxicological information:**

Irritant

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Carcinogenic if inhaled.

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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

- **TDG 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.

- **Carcinogenity categories**

· TLV (Threshold Limit Value established by ACGIH)		
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.
 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)

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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.

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* Data compared to the previous version altered.

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