



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Sealing Cement</b>
<b>Other means of identification</b>	
<b>SDS number</b>	SDS-00030-CA
<b>Product code</b>	EXSC-2, EXSC-8, EXSC-16, EXSC-160
<b>Recommended use</b>	Sealing compound for use on explosion-proof fittings.
<b>Recommended restrictions</b>	Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name</b>	ABB Installation Products Inc.
<b>Address</b>	860 Ridge Lake Blvd. Memphis, TN 38120 USA
<b>Telephone</b>	901-252-5000 ext. 8324
<b>Emergency telephone</b>	CHEMTREC - 24 HOURS: +1-800-424-9300 (Toll-free) +1 703-741-5970

## 2. Hazard identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Carcinogenicity (inhalation)	Category 1A
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	May cause cancer by inhalation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	IF exposed or concerned: Get medical advice/attention.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Supplemental information</b>	None.
<b>Other hazards</b>	None known.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Portland Cement		65997-15-1	60 - 80
Quartz		14808-60-7	10 - 30
Hydroxyaluminium distearate		300-92-5	5 - 10
Calcium sulphate		7778-18-9	1 - 5

## Composition comments

The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by weight unless otherwise indicated.

## 4. First-aid measures

### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

### Eye contact

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

Dusts may irritate the respiratory tract, skin and eyes. Coughing. Prolonged exposure may cause chronic effects.

### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

### Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

### Unsuitable extinguishing media

No restrictions known.

### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Fire fighting equipment/instructions

Use water spray to cool unopened containers.

### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

### General fire hazards

The product is nonflammable and does not support combustion.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Use a vacuum cleaner. If not possible collect using a shovel, broom or the like. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers.

For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store in a dry place. Store away from incompatible materials (see section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values Components

	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.

**US. ACGIH Threshold Limit Values  
Components**

Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3 Respirable fraction.

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

Components	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	
Hydroxyaluminium distearate (CAS 300-92-5)	TWA	10 mg/m3	
Portland Cement (CAS 65997-15-1)	TWA	10 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable
Hydroxyaluminium distearate (CAS 300-92-5)	TWA	1 mg/m3	Respirable.
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

Components	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

**Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs  
Publication (New Brunswick Regulation 91-191)**

Components	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	
Hydroxyaluminium distearate (CAS 300-92-5)	TWA	10 mg/m3	
Portland Cement (CAS 65997-15-1)	TWA	10 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

Components	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

Components	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	TWA	10 mg/m3	Total dust.
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m3	Respirable dust.

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	10 mg/m3	Total dust.
		0.1 mg/m3	Respirable dust.

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

Components	Type	Value	Form
Calcium sulphate (CAS 7778-18-9)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Portland Cement (CAS 65997-15-1)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Quartz (CAS 14808-60-7)	8 hour	0.05 mg/m3	Respirable fraction.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

**Appropriate engineering controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

When working with powders or dusts, wear dust-proof chemical goggles and face shield unless full facepiece respiratory protection is worn.

**Skin protection****Hand protection**

Wear impervious, abrasion and alkali resistant protective gloves. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear appropriate chemical resistant clothing. Apron or other light protective clothing and boots.

**Respiratory protection**

Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit. Selection and use of respiratory protective equipment should be in accordance with CSA Standard Z94.4. Check with respiratory protective equipment suppliers.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance****Physical state**

Solid.

**Form**

Powder solid with some granular material.

**Colour**

Not available.

**Odour**

Mild.

**Odour threshold**

Not available.

**pH**

Not applicable.

**Melting point/freezing point**

Not applicable.

**Initial boiling point and boiling range**

Not applicable.

**Flash point**

Not applicable.

**Evaporation rate**

Not applicable.

**Flammability (solid, gas)**

Non-combustible.

**Upper/lower flammability or explosive limits****Explosive limit - lower ( %)**

Not applicable.

**Explosive limit – upper (%)**

Not applicable.

<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable for mixtures.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Powerful oxidizers. Fluorine. Chlorine. Chlorine trifluoride. Aluminium. Oxygen fluoride. Wet product is alkaline, and as such is incompatible with acids, ammonium salts, and phosphorous.
<b>Hazardous decomposition products</b>	Decomposition is not expected under normal conditions of use and storage.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause cancer by inhalation. Dust may irritate respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Dust or powder may irritate the skin.
<b>Eye contact</b>	Dust may irritate the eyes.
<b>Ingestion</b>	May cause discomfort if swallowed.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Dusts may irritate the respiratory tract, skin and eyes. Coughing. Prolonged exposure may cause chronic effects.
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### Information on toxicological effects

<b>Acute toxicity</b>	Not expected to be acutely toxic.
<b>Skin corrosion/irritation</b>	Dust or powder may irritate the skin.
<b>Serious eye damage/eye irritation</b>	Dust may irritate the eyes.

### Respiratory or skin sensitisation

#### Canada - Alberta OELs: Irritant

Hydroxyaluminium distearate (CAS 300-92-5)                      Irritant

**Respiratory sensitisation**      Not a respiratory sensitizer.

**Skin sensitisation**              This product is not expected to cause skin sensitisation.

<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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**Carcinogenicity**

May cause cancer by inhalation.

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.

Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

#### ACGIH Carcinogens

Portland Cement (CAS 65997-15-1)

A4 Not classifiable as a human carcinogen.

Quartz (CAS 14808-60-7)

A2 Suspected human carcinogen.

#### Canada - Alberta OELs: Carcinogen category

Quartz (CAS 14808-60-7)

Suspected human carcinogen.

#### Canada - Manitoba OELs: carcinogenicity

Portland Cement (CAS 65997-15-1)

Not classifiable as a human carcinogen.

Quartz (CAS 14808-60-7)

Suspected human carcinogen.

#### Canada - Quebec OELs: Carcinogen category

Quartz (CAS 14808-60-7)

Suspected carcinogenic effect in humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7)

1 Carcinogenic to humans.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Quartz (CAS 14808-60-7)

Known To Be Human Carcinogen.

#### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

#### Specific target organ toxicity - single exposure

Not classified.

#### Specific target organ toxicity - repeated exposure

Not classified.

#### Aspiration hazard

Not an aspiration hazard.

#### Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

#### Further information

Crystalline silica: Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease.

## 12. Ecological information

#### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Persistence and degradability

The product solely consists of inorganic compounds which are not biodegradable.

#### Bioaccumulative potential

No data available on bioaccumulation.

#### Mobility in soil

The product is insoluble in water. Expected to have low mobility in soil.

#### Other adverse effects

No data available.

## 13. Disposal considerations

#### Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Local disposal regulations

Dispose in accordance with all applicable regulations.

#### Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

#### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### TDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### Controlled Drugs and Substances Act

Not regulated.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

### Greenhouse Gases

Not listed.

### Precursor Control Regulations

Not regulated.

### International regulations

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Kyoto Protocol

Not applicable.

#### Montreal Protocol

Not applicable.

#### Basel Convention

Not applicable.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

**Issue date** 06-January-2022

**Revision date** -

**Version No.**

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**Disclaimer**

ABB Installation Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.