SAFETY DATA SHEET



1. Identification

Product identifier NO. T-36 REFR CEMENT; NO. T-36 REFR CEMENT-WINTERIZED

Other means of identification

Brand Code 6006, 147C

For Industrial Use Only Recommended use

Avoid dry cutting, blasting, or dust generation. Users should be informed of the potential presence **Recommended restrictions**

> 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.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HarbisonWalker International Company name

Address 1305 Cherrington Parkway, Suite 100

> Moon Township Pennsylvania

15108 US

Telephone General Phone: 412-375-6600

Website www.thinkHWI.com Not available. **Emergency phone number** Not available. Supplier

2. Hazard identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

> Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

Label elements



Signal word

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

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective

clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention. Response

Store away from incompatible materials. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ALPHA-ALUMINA		1344-28-1	10 - 25

Chemical name	Common name and synonyms	CAS number	%
Kyanite		1302-76-7	10 - 25
Mullite		1302-93-8	10 - 25
Kaolinite		1318-74-7	2.5 - 10
SILICA, AMORPHOUS, FUMED	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
SILICA, CRYSTALLINE, QUARTZ		14808-60-7	2.5 - 10
Silicic Acid, Sodium Salt		1344-09-8	2.5 - 10
Titanium Dioxide		13463-67-7	1 - 2.5
SILICA, CRYSTALLINE, CRISTOBALITE		14464-46-1	< 0.5
Other components below reportable	e levels		10 - 25

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

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.

Prolonged exposure may cause chronic effects.

Eye contact 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

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Not available.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment and precautions for firefighters

Not available.

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. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

For waste disposal, see section 13 of the SDS.

Environmental precautions

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

Use fire-extinguishing media appropriate for surrounding materials.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occ

components	Туре	Value	Form
LPHA-ALUMINA (CAS 344-28-1)	TWA	1 mg/m3	Respirable fraction.
aolinite (CAS 1318-74-7)	TWA	1 mg/m3	Respirable fraction.
yanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
ullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
ILICA, CRYSTALLINE, UARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
tanium Dioxide (CAS 3463-67-7)	TWA	10 mg/m3	
anada. Alberta OELs (Occupation	al Health & Safety Code, Sch	nedule 1, Table 2)	
omponents	Туре	Value	Form
LPHA-ALUMINA (CAS 344-28-1)	TWA	10 mg/m3	
ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1)	TWA	0.025 mg/m3	Respirable.
		0.025 mg/m3	Respirable particles.
LICA, CRYSTALLINE, UARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
tanium Diavida (CAC	T14/4	40 4 0	
itanium Dioxide (CAS 3463-67-7)	TWA	10 mg/m3	
3463-67-7) anada. British Columbia OELs. (C	Occupational Exposure Limit	· ·	cupational Health and
3463-67-7) anada. British Columbia OELs. (C afety Regulation 296/97, as amen	Occupational Exposure Limit	· ·	cupational Health and
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS	Occupational Exposure Limited	s for Chemical Substances, Oc	-
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents PHA-ALUMINA (CAS	Occupational Exposure Limit ded) Type	s for Chemical Substances, Oc Value	Form
anada. British Columbia OELs. (Cafety Regulation 296/97, as amendomponents LPHA-ALUMINA (CAS 344-28-1) acolinite (CAS 1318-74-7)	Occupational Exposure Limiteded) Type TWA	s for Chemical Substances, Oc Value 1 mg/m3	Form Respirable.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents PHA-ALUMINA (CAS 344-28-1) acolinite (CAS 1318-74-7) yanite (CAS 1302-76-7)	Occupational Exposure Limiteded) Type TWA TWA	value 1 mg/m3 1 mg/m3	Form Respirable. Respirable.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) lullite (CAS 1302-93-8) ILICA, AMORPHOUS,	Occupational Exposure Limiteded) Type TWA TWA TWA	Value 1 mg/m3 1 mg/m3 1 mg/m3	Form Respirable. Respirable. Respirable.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) lullite (CAS 1302-93-8) ILICA, AMORPHOUS,	Occupational Exposure Limiteded) Type TWA TWA TWA TWA TWA TWA	Value 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3	Form Respirable. Respirable. Respirable. Respirable.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) fullite (CAS 1302-93-8) ILICA, AMORPHOUS, UMED (CAS 7631-86-9) ILICA, CRYSTALLINE, RISTOBALITE (CAS	Occupational Exposure Limiteded) Type TWA TWA TWA TWA TWA TWA	Value 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3	Form Respirable. Respirable. Respirable. Respirable. Total
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) lullite (CAS 1302-93-8) ILICA, AMORPHOUS, UMED (CAS 7631-86-9) ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1) ILICA, CRYSTALLINE,	Occupational Exposure Limiteded) Type TWA TWA TWA TWA TWA TWA TWA TW	Value 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3	Form Respirable. Respirable. Respirable. Total Respirable.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) lullite (CAS 1302-93-8) ILICA, AMORPHOUS, UMED (CAS 7631-86-9) ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1) ILICA, CRYSTALLINE, UARTZ (CAS 14808-60-7) itanium Dioxide (CAS	Type TWA	1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3	Form Respirable. Respirable. Respirable. Respirable. Total Respirable. Respirable fraction.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) lullite (CAS 1302-93-8) ILICA, AMORPHOUS, UMED (CAS 7631-86-9) ILICA, CRYSTALLINE, RISTOBALITE (CAS 14808-60-7) itanium Dioxide (CAS	Type TWA	s for Chemical Substances, Oct Value 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3	Respirable. Respirable. Respirable. Respirable. Total Respirable. Respirable fraction.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) lullite (CAS 1302-93-8) ILICA, AMORPHOUS, UMED (CAS 7631-86-9) ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1) ILICA, CRYSTALLINE, UARTZ (CAS 14808-60-7) itanium Dioxide (CAS 3463-67-7) anada. Manitoba OELs (Reg. 217/	Type TWA	Value 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3	Respirable. Respirable. Respirable. Respirable. Total Respirable. Respirable fraction. Respirable fraction.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) lullite (CAS 1302-93-8) ILICA, AMORPHOUS, UMED (CAS 7631-86-9) ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1) ILICA, CRYSTALLINE, UARTZ (CAS 14808-60-7) itanium Dioxide (CAS 3463-67-7) anada. Manitoba OELs (Reg. 217/omponents LPHA-ALUMINA (CAS	Type TWA	Value 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3 And Health Act)	Respirable. Respirable. Respirable. Respirable. Total Respirable. Respirable fraction. Respirable fraction. Total dust.
anada. British Columbia OELs. (Cafety Regulation 296/97, as amenomponents LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7) iullite (CAS 1302-93-8) ILICA, AMORPHOUS, UMED (CAS 7631-86-9) ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1) ILICA, CRYSTALLINE, UARTZ (CAS 14808-60-7) itanium Dioxide (CAS 3463-67-7) anada. Manitoba OELs (Reg. 217/omponents LPHA-ALUMINA (CAS 344-28-1)	Type TWA	Value 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3 And Health Act) Value	Respirable. Respirable. Respirable. Respirable. Total Respirable. Respirable fraction. Respirable fraction. Total dust. Form
	Type TWA	Value 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3 And Health Act) Value 1 mg/m3	Respirable. Respirable. Respirable. Respirable. Total Respirable. Respirable fraction. Respirable fraction. Respirable fraction. Respirable fraction. Respirable fraction.

Components	Туре	Value	Form
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
itanium Dioxide (CAS 3463-67-7)	TWA	10 mg/m3	
canada. Ontario OELs. (Control of components	Exposure to Biological or Che Type	mical Agents) Value	Form
LPHA-ALUMINA (CAS 344-28-1)	TWA	1 mg/m3	Respirable fraction.
Caolinite (CAS 1318-74-7)	TWA	1 mg/m3	Respirable fraction.
yanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
Iullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
ILICA, CRYSTALLINE, RISTOBALITE (CAS 4464-46-1)	TWA	0.05 mg/m3	Respirable fraction.
GILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
itanium Dioxide (CAS 3463-67-7)	TWA	10 mg/m3	
Canada. Quebec OELs. (Ministry o	-	·	
components	Туре	Value	Form
LPHA-ALUMINA (CAS 344-28-1)	TWA	10 mg/m3	Total dust.
ILICA, AMORPHOUS, UMED (CAS 7631-86-9)	TWA	6 mg/m3	Respirable dust.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 4464-46-1)	TWA	0.05 mg/m3	Respirable dust.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
itanium Dioxide (CAS 3463-67-7)	TWA	10 mg/m3	Total dust.
Canada. Saskatchewan OELs (Occ Components	upational Health and Safety Re Type	gulations, 1996, Table 21) Value	Form
LPHA-ALUMINA (CAS	15 minute	20 mg/m3	
LPHA-ALUMINA (CAS	15 minute 8 hour	20 mg/m3 10 mg/m3	
LPHA-ALUMINA (CAS 344-28-1)		·	Dust.
LPHA-ALUMINA (CAS 344-28-1)	8 hour	10 mg/m3	Dust. Dust.
LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7)	8 hour 15 minute	10 mg/m3 20 mg/m3	
LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7)	8 hour 15 minute 8 hour	10 mg/m3 20 mg/m3 10 mg/m3	Dust.
LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7)	8 hour 15 minute 8 hour 15 minute	10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3	Dust. Dust.
LPHA-ALUMINA (CAS 344-28-1) aolinite (CAS 1318-74-7) yanite (CAS 1302-76-7)	8 hour 15 minute 8 hour 15 minute 8 hour	10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3	Dust. Dust. Dust.
LPHA-ALUMINA (CAS 344-28-1) Caolinite (CAS 1318-74-7) Cyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, CRYSTALLINE, CRISTOBALITE (CAS	8 hour 15 minute 8 hour 15 minute 8 hour 15 minute	10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3	Dust. Dust. Dust. Dust.
ALPHA-ALUMINA (CAS 344-28-1) Caolinite (CAS 1318-74-7) Cyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, CRYSTALLINE, CRISTOBALITE (CAS	8 hour 15 minute 8 hour 15 minute 8 hour 15 minute 8 hour 15 minute 8 hour	10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3	Dust. Dust. Dust. Dust. Dust. Dust.
ALPHA-ALUMINA (CAS 344-28-1) Caolinite (CAS 1318-74-7) Cyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 4464-46-1) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	8 hour 15 minute 8 hour 15 minute 8 hour 15 minute 8 hour 15 minute 8 hour	10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 10 mg/m3	Dust. Dust. Dust. Dust. Dust. Dust. Inhalable fraction.

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

8 hour

Components Type Value Form

Biological limit valuesNo 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. Occupational exposure to nuisance dust (total and respirable)

10 mg/m3

and respirable crystalline silica should be monitored and controlled.

Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) 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.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Use of an impervious apron is recommended.

exceeding the exposure limits.

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

Form

Physical state Solid.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Solid. Paste.

(%)

Flammability limit - upper Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity**

Other information

Explosive properties Not explosive. Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Incompatible materials Acids. Powerful oxidizers. Chlorine.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may

not be specific to industrial application exposure.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

SILICA, CRYSTALLINE, CRISTOBALITE (CAS Irritant

14464-46-1)

Titanium Dioxide (CAS 13463-67-7) Irritant

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) 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. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

ACGIH Carcinogens

ALPHA-ALUMINA (CAS 1344-28-1) A4 Not classifiable as a human carcinogen. Kaolinite (CAS 1318-74-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) A4 Not classifiable as a human carcinogen. SILICA, CRYSTALLINE, CRISTOBALITE (CAS A2 Suspected human carcinogen. 14464-46-1)

Titanium Dioxide (CAS 13463-67-7) Canada - Alberta OELs: Carcinogen category

SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

Canada - Manitoba OELs: carcinogenicity

ALPHA-ALUMINA (CAS 1344-28-1) Not classifiable as a human carcinogen. Kaolinite (CAS 1318-74-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1) SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

Canada - Quebec OELs: Carcinogen category

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

A2 Suspected human carcinogen.

A4 Not classifiable as a human carcinogen.

Suspected human carcinogen.

Suspected human carcinogen.

Not classifiable as a human carcinogen. Not classifiable as a human carcinogen. Not classifiable as a human carcinogen.

Suspected human carcinogen.

Suspected human carcinogen.

Not classifiable as a human carcinogen.

Detected carcinogenic effect in animals. Suspected carcinogenic effect in humans.

3 Not classifiable as to carcinogenicity to humans. 1 Carcinogenic to humans.

1 Carcinogenic to humans.

2B Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1)

Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Known To Be Human Carcinogen.

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

Developmental effects

SILICA, CRYSTALLINE, QUARTZ 0 **Developmental effects - EU category** SILICA, CRYSTALLINE, QUARTZ n

Embryotoxicity

SILICA, CRYSTALLINE, QUARTZ 0

Reproductivity

0 SILICA, CRYSTALLINE, QUARTZ

Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Not an aspiration hazard. **Aspiration hazard**

Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may Chronic effects

cause chronic effects.

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.

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

This product, in its present state, when discarded or disposed of, is not a hazardous waste **Disposal instructions**

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

Hazardous waste code Since this product is used in several industries, no Waste Code can be provided by the supplier.

The Waste Code should be determined in arrangement with your waste disposal partner or the

responsible authority.

Waste from residues / unused

products

Not available.

Not available. Contaminated packaging

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

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.

Country(s) or region

International Inventories

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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

(PICCS)

Inventory name

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No

16. Other information

 Issue date
 09-26-2018

 Revision date
 09-07-2021

Version # 02

Disclaimer This information is based on our present knowledge on creation date. However, this shall not

constitute a guarantee for any specific product features and shall not establish a legally valid

contractual relationship.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

On inventory (yes/no)*

^{*}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).