

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier

682T Real Red

Other means of identification

Not available

Recommended use

Glazing pottery None known

Recommended restrictions Manufacturer information

Tucker's Pottery Supplies Inc.,

Cone Art Kilns Inc. 15 West Pearce Street

Richmond Hill, ON L4B 1H6 CA Phone: Toll Free 1-800-304-6185

Phone: 905-889-7705

Emergency Phone Number | 613-996-6666 (CANUTEC)

Supplier

See above

2. Hazards Identification

Physical hazards

Not classified.

Health hazards

Acute toxicity, inhalation

Category 4

Serious eye damage/eye irritation

Category 2

Carcinogenicity

Category 1

Specific target organ toxicity, single exposure

Category 3 respiratory tract imitation

Specific target organ toxicity, repeated

Category 1

exposure

Environmental hazards

WHMIS 2015 defined hazards

Label elements

Not classified. Not classified



Danger

Hazard statement

Signal word

Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. 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. Avoid breathing dust. Do not eat, drink or smoke when using this product.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention

Storage Disposal Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

None known

Hazard(s) not otherwise classified (HNOC)

None known

Supplemental information

None

3. Composition/Information on Ingredients				
/lixture				
Chemical name	Common name and synonyms	CAS number	%	
Crystalline silica		14808-60-7	34	
Feldspar		68476-25-5	19	
Frits, chemicals		65997-18-4	19	
Kaolin		1332-58-7	11	
Kaolinite		1318-74-7	8	
Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated		102184-95-2	5	
Hydrous magnesium silicate		14807-96-6	4	
Mica group minerals		12001-26-2	2	
Barium carbonate		513-77-9	0.4	

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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		1 3 L	\sim	w	INIC	3 COI :	эu	163

	4. First Aid Measures
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists. Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s)

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice
(show the label where possible). Ensure that medical personnel are aware of the material(s)
involved and take precautions to protect themselves. Show this safety data sheet to the doctor in
attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical

Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

Fire-fighting Use water spray to cool unopened containers. equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards

No unusual fire or explosion hazards noted. Hazardous combustion May include and are not limited to: Oxides of carbon. Oxides of sulfur.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

products

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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Methods and materials for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

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. Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with eyes. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Avoid prolonged exposure. Wear appropriate personal protective equipment. Should be handled in closed systems, if possible. Wash thoroughly after handling. Observe good industrial hygiene practices. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada, Alberta OELs	(Occupational Health & Safet	y Code, Schedule 1, Table 2)
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Components	Type	Value	Form
Barium carbonate (CAS 513-77-9)	TWA	0.5 mg/m3	
Crystalline silica (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 mg/m3	Respirable particles
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
Mica group minerals (CAS 12001-26-2)	TWA	3 mg/m3	Respirable.
Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated	TWA	0.002 mg/m3	Respirable.

(CAS 102184-95-2)

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

Components	Туре	Value	Form
Barium carbonate (CAS 513-77-9)	TVVA	0.5 mg/m3	
Crystalline silica (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
Kaolinite (CAS 1318-74-7)	TWA	1 mg/m3	Respirable.
Mica group minerals (CAS 12001-26-2)	TWA	3 mg/m3	Respirable.
Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)	TWA	0 _e 01 mg/m3	
,		0.002 mg/m3	Respirable,

components	Type	Value	Form
Barium carbonate (CAS 13-77-9)	TWA	0.5 mg/m3	
Crystalline silica (CAS 4808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
lydrous magnesium silicate CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
(aolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
(aolinite (CAS 1318-74-7)	TWA	1 mg/m3	Respirable fraction.
flica group minerals (CAS 2001-26-2)	TWA	3 mg/m3	Respirable fraction,
ilicic Acid, Zirconium Salt, cadmium	TWA	0,01 mg/m3	
ligment-encapsulated CAS 102184-95-2)			
		0.002 mg/m3	Respirable fraction.
anada. Ontario OELs. (Control of		=	_
components	Туре	Value	Form
arium carbonate (CAS 13-77-9)	TWA	0.5 mg/m3	
rystalline silica (CAS 4808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
lydrous magnesium silicate	TWA	2 fibers/ml	
CAS 14807-96-6)		2 mg/m3	Respirable fraction.
aolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
aolinite (CAS 1318-74-7)	TWA	1 mg/m3	Respirable fraction.
lica group minerals (CAS 2001-26-2)	TWA	3 mg/m3	Respirable fraction.
ilicic Acid, Zirconium Salt, admium igment-encapsulated	TWA	0.01 mg/m3	
CAS 102184-95-2)			
JAS 102164-95-2)		0.002 mg/m3	Respirable fraction.
anada. Quebec OELs. (Ministry c	-	ng the Quality of the Work En	vironment)
anada. Quebec OELs. (Ministry o omponents	Туре	ng the Quality of the Work En Value	
anada. Quebec OELs. (Ministry of omponents arium carbonate (CAS 13-77-9)	Type TWA	ng the Quality of the Work En Value 0.5 mg/m3	vironment)
canada. Quebec OELs. (Ministry of components arium carbonate (CAS 13-77-9) rystalline silica (CAS 4808-60-7)	Type TWA TWA	ng the Quality of the Work En Value 0.5 mg/m3 0.1 mg/m3	vironment) Form Respirable dust.
anada. Quebec OELs. (Ministry of omponents) arium carbonate (CAS) 13-77-9) rystalline silica (CAS) 4808-60-7) ydrous magnesium silicate	Type TWA	ng the Quality of the Work En Value 0.5 mg/m3	vironment) Form
anada. Quebec OELs. (Ministry of omponents) arium carbonate (CAS 13-77-9) rystalline silica (CAS 4808-60-7) ydrous magnesium silicate CAS 14807-96-6)	Type TWA TWA	ng the Quality of the Work En Value 0.5 mg/m3 0.1 mg/m3	vironment) Form Respirable dust.
anada. Quebec OELs. (Ministry of components arium carbonate (CAS 13-77-9) rystalline silica (CAS	Type TWA TWA TWA	ng the Quality of the Work En Value 0.5 mg/m3 0.1 mg/m3 3 mg/m3	Respirable dust.
ranada. Quebec OELs. (Ministry of components) arium carbonate (CAS 13-77-9) rrystalline silica (CAS 4808-60-7) lydrous magnesium silicate CAS 14807-96-6) aolin (CAS 1332-58-7) lica group minerals (CAS	Type TWA TWA TWA TWA	ng the Quality of the Work En Value 0.5 mg/m3 0.1 mg/m3 3 mg/m3 5 mg/m3	Respirable dust. Respirable dust. Respirable dust.
canada. Quebec OELs. (Ministry of components) arium carbonate (CAS 13-77-9) crystalline silica (CAS 4808-60-7) lydrous magnesium silicate CAS 14807-96-6) aolin (CAS 1332-58-7) lica group minerals (CAS 2001-26-2) ilicic Acid, Zirconium Salt, admium igment-encapsulated	Type TWA TWA TWA TWA TWA TWA TWA	0.5 mg/m3 0.1 mg/m3 3 mg/m3 5 mg/m3 3 mg/m3 0.025 mg/m3	Respirable dust. Respirable dust. Respirable dust.
anada. Quebec OELs. (Ministry of omponents) arium carbonate (CAS 13-77-9) rystalline silica (CAS 4808-60-7) ydrous magnesium silicate CAS 14807-96-6) aolin (CAS 1332-58-7) lica group minerals (CAS 2001-26-2) ilicic Acid, Zirconium Salt, admium igment-encapsulated CAS 102184-95-2) S. OSHA Specifically Regulated Somponents	Type TWA TWA TWA TWA TWA TWA TWA TWA TWA	0.5 mg/m3 0.1 mg/m3 3 mg/m3 5 mg/m3 3 mg/m3 0.025 mg/m3	Respirable dust. Respirable dust. Respirable dust.
anada. Quebec OELs. (Ministry of components) arium carbonate (CAS 13-77-9) rystalline silica (CAS 4808-60-7) lydrous magnesium silicate CAS 14807-96-6) aolin (CAS 1332-58-7) lica group minerals (CAS 2001-26-2) ilicic Acid, Zirconium Salt, admium igment-encapsulated CAS 102184-95-2) S. OSHA Specifically Regulated S	Type TWA	ng the Quality of the Work En Value 0.5 mg/m3 0.1 mg/m3 3 mg/m3 5 mg/m3 3 mg/m3 0.025 mg/m3	Respirable dust. Respirable dust. Respirable dust.
arium carbonate (CAS 13-77-9) Trystalline silica (CAS 4808-60-7) Trystalline silica (C	Type TWA	0.5 mg/m3 0.1 mg/m3 3 mg/m3 5 mg/m3 0.025 mg/m3 0.025 mg/m3 0.025 mg/m3	Respirable dust. Respirable dust. Respirable dust.
arium carbonate (CAS 13-77-9) rystalline silica (CAS 4808-60-7) lydrous magnesium silicate CAS 14807-96-6) aolin (CAS 1332-58-7) lica group minerals (CAS 2001-26-2) ilicic Acid, Zirconium Salt, admium igment-encapsulated CAS 102184-95-2) S. OSHA Specifically Regulated somponents ilicic Acid, Zirconium Salt, admium igment-encapsulated CAS 102184-95-2) S. OSHA Table Z-1 Limits for Air	Type TWA	0.5 mg/m3 0.1 mg/m3 3 mg/m3 5 mg/m3 3 mg/m3 0.025 mg/m3 1-1050) Value 0.005 mg/m3	Respirable dust. Respirable dust. Respirable dust. Respirable dust. Respirable dust.

Components	Type		Val	ue	Form
Kaolin (CAS 1332-58-7)	PEL			g/m3 mg/m3	Respirable fraction. Total dust.
US. OSHA Table Z-3 (29 CF			14-1		Farm
Components	Туре		Val		Form
Crystalline silica (CAS 14808-60-7)	TWA		0.1	mg/m3	Respirable
14000-00-7)			2.4	mppcf	Respirable
Hydrous magnesium silicate (CAS 14807-96-6)	TWA		0.1	mg/m3	Respirable.
(0/10 1400/ 00-0)				mppcf mppcf	Respirable.
(Carl (OAO 4000 50 7)	TAIA			ng/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA			mg/m3	Total dust.
				mppcf	Total dust.
				mppcf	Respirable fraction
Mica group minerals (CAS	TWA			mppcf	
12001-26-2)					
US. ACGIH Threshold Limi			1/-	lue	Form
Components	Туре			lue	1 01111
Barium carbonate (CAS 513-77-9)	TWA			i mg/m3	
Crystalline silica (CAS 14808-60-7)	TWA		0.0)25 mg/m3	Respirable fraction.
Hydrous magnesium silicate (CAS 14807-96-6)	TWA		2 r	ng/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA		2 r	ng/m3	Respirable fraction.
Kaolinite (CAS 1318-74-7)	TWA		1 r	mg/m3	Respirable fraction.
Mica group minerals (CAS 12001-26-2)	TWA		3 r	mg/m3	Respirable fraction.
Silicic Acid, Zirconium Salt, Cadmium	TWA		0.0	01 mg/m3	
Pigment-encapsulated (CAS 102184-95-2)			0.0	002 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards				
Components	Туре		Va	alue	Form
Barium carbonate (CAS 513-77-9)	TWA		0.8	5 mg/m3	
Crystalline silica (CAS 14808-60-7)	TWA		0.	05 mg/m3	Respirable dust.
Hydrous magnesium silicate (CAS 14807-96-6)	TWA		2	mg/m3	Respirable.
Kaolin (CAS 1332-58-7)	TWA		5	mg/m3	Respirable.
. 123 (57.10 1002 00 7)	,,,,,) mg/m3	Total
Mica group minerals (CAS	TWA		3	mg/m3	Respirable.
12001-26-2)					
ogical limit values					
ACGIH Biological Exposur Components	e Indices Value	Determinant	Specimen	Sampling T	īme
Silicic Acid, Zirconium Salt,	5 μg/g	Cadmium	Creatinine	160	
			in urine		
Cadmium			iii diiiic		
			iii diiiic		

^{* -} For sampling details, please see the source document.

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 (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. Provide eyewash station. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Impervious gloves. Confirm with reputable supplier first,

Other Wear suitable protective clothing. Use of an impervious apron is recommended. As required by

employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

> Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

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. When using do not eat or drink.

9. Physical and Chemical Properties

Powder **Appearance** Solid. Physical state **Form** Solid. Color Beige. Odor Not available.

Odor threshold Not available рΗ Not available. Melting point/freezing point Not available:

Initial boiling point and boiling

Not available.

range

Not available. Not available.

Specific gravity Partition coefficient

Pour point

(n-octanol/water)

Not available.

Flash point

Not available.

Evaporation rate Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%) Not available. Vapor pressure Not available.

Vapor density Not available. Relative density Not available. Solubility(ies) Not available. Auto-ignition temperature Not available. **Decomposition temperature** Not available.

Other information

Viscosity

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and Reactivity

Reactivity This product may react with strong oxidizing agents.

Not available.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use,

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Do not mix with other chemicals.

Incompatible materials

Powerful oxidizers. Chlorine.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon. Oxides of sulfur,

11. Toxicological Information

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion

May cause stomach distress, nausea or vomiting.

Inhalation

Harmful if inhaled.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Causes serious eve irritation.

Symptoms related to the

physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause respiratory irritation. Coughing.

Information on toxicological effects

Acute toxicity

Harmful if inhaled. May cause respiratory irritation.

Components

Species

Test Results

Barium carbonate (CAS 513-77-9)

Acute

Oral

LD

Mouse

200 mg/kg

Rabbit

170 - 300 mg/kg

LD50 Mouse 200 mg/kg

Rat

100 - 300 mg/kg

418 mg/kg

Wild Norway rat

1480 mg/kg

Crystalline silica (CAS 14808-60-7)

Acute

Demnal

LD50

Not available

Inhalation

LC50

Not available

Oral

LD50

Rat

500 mg/kg, HSDB, IV only

Feldspar (CAS 68476-25-5)

Acute

Dermal LD50

Not available

Inhalation

LC50

Not available

Oral

LD50

Not available

Frits, chemicals (CAS 65997-18-4)

Acute

Dermal LD50

Rat

> 2000 mg/kg, 24 Hours

Inhalation

LC50

Mouse

> 9 mg/m3, 15 Minutes, ECHA

Mouse, Rat

> 1 mg/m3, 3 Hours, ECHA

Rabbit

> 22.4 mg/m3, 15 Minutes, ECHA

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Components	Species	Test Results
	•	> 4.5 mg/m3, 2 Hours, ECHA
	Rat	> 8.6 mg/m3, 30 Minutes, ECHA
		> 4.6 mg/m3, 3 Hours, ECHA
		> 4.5 mg/m3, 2 Hours, ECHA
		> 1.9 mg/L, 4 Hours, ECHA
		112 mg/m3, 2 Hours, ECHA
		4.4 mg/L, 4 Hours, ECHA
		2.2 mg/L, 4 Hours, ECHA
Oral		
LD50	Mouse	890 mg/kg, ECHA
		63 mg/kg, ECHA
	Mouse, Rat	41 mg/kg, ECHA
		7.7 mg/kg, ECHA
	Rat	> 11000 mg/kg, ECHA
		> 5000 mg/kg, ECHA
		> 2000 mg/kg, ECHA
		63 - 259 mg/kg, ECHA
		9990 mg/kg, ECHA
		8796 mg/kg, ECHA
		2330 mg/kg, ECHA
		314 mg/kg, ECHA
		300 - 2000 mg/kg, ECHA
		221 mg/kg, ECHA
Hydrous magnesium silicate (CAS 14	4807-96-6)	
Acute Dermal		
LD50	Rat	> 2000 mg/kg, ECHA
Inhalation		
LC50	Rat	> 2.1 mg/L, 4 h, ECHA
Oral		
LD50	Rat	> 5000 mg/kg, ECHA
Kaolin (CAS 1332-58-7) Acute		
Dermal		
LD50	Rat	> 5000 mg/kg, HSDB
Inhalation		
LC50	Not available	
<i>Oral</i> LD50	Rat	> 5000 malka HSDB
1000	Nat	> 5000 mg/kg, HSDB 14900 mg/kg, Gelest
Mica group minerals (CAS 12001-26	2)	14900 mg/kg, Gelest
Acute	-2)	
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
<i>Oral</i> LD50	Not available	
3•		

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

Acute

Dermal

LD50

Not available

Inhalation

LC50

Rat

> 5.1 mg/L, 4 Hours, ECHA

Oral

LD50

Rat

> 2000 mg/kg, ECHA

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Exposure minutes

Not available. Not available.

Erythema value

Oedema value

Not available.

Serious eve damage/eve irritation

Causes serious eye irritation.

Corneal opacity value Iris lesion value

Not available. Not available.

Conjunctival reddening

value

Not available.

Not available.

Conjunctival oedema value Recover days

Not available.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Mutagenicity

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

mutagenic or genotoxic.

Carcinogenicity

May cause cancer.

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.

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

controlled.

ACGIH Carcinogens

Crystalline silica (CAS 14808-60-7) Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2) A2 Suspected human carcinogen. A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

Crystalline silica (CAS 14808-60-7) Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2) Suspected human carcinogen. Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

CADMIUM AND COMPOUNDS, AS CD, RESPIRABLE

FRACTION (CAS 102184-95-2)

SILICA, CRYSTALLINE-.ALPHA.-QUARTZ, RESPIRABLE FRACTION (CAS 14808-60-7) Suspected human carcinogen.

Suspected human carcinogen:

Canada - Quebec OELs: Carcinogen category

Crystalline silica (CAS 14808-60-7) Silicic Acid. Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2) Suspected carcinogenic effect in humans. Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (CAS 14808-60-7)

Volume 68, Volume 100C 1 Carcinogenic to humans.

Hydrous magnesium silicate (CAS 14807-96-6)

Volume 42, Supplement 7, Volume 93 - 3 Not classifiable as to

carcinogenicity to humans.

Volume 93 - 2B Possibly carcinogenic to humans. Volume 58, Volume 100C 1 Carcinogenic to humans.

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (CAS 14808-60-7)

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

US NTP Report on Carcinogens: Known carcinogen

Crystalline silica (CAS 14808-60-7) Known To Be Human Carcinogen. Silicic Acid, Zirconium Salt, Cadmium Known To Be Human Carcinogen.

Pigment-encapsulated (CAS 102184-95-2)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Crystalline silica (CAS 14808-60-7) Cancer Silicic Acid, Zirconium Salt, Cadmium Cancer

Pigment-encapsulated (CAS 102184-95-2)

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

Teratogenicity Not available.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure,

Aspiration hazard Not an aspiration hazard.

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

harmful. Prolonged exposure may cause chronic effects.

Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring

of the lungs, a disease called silicosis. Early symptoms of silicosis include cough, mucous

production and shortness of breath upon exertion.

Fibrosis was observed in rats exposed to 6 mg/m3 of hydrous magnesium silicate (talc) for 113 or

122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0

mg/m3 of airborne talc ore free of asbestos and silica.

12. Ecological Information

See below **Ecotoxicity**

Ecotoxicological data

Test Results Components Species

Barium carbonate (CAS 513-77-9)

Aquatic

Western mosquitofish (Gambusia affinis) 6950 mg/L, 96 hours Fish LC50

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Other adverse effects

No data available. Mobility in soil No data available. Not available.

Mobility in general

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

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

General IMDG Regulated Marine Pollutant.

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U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal 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.

Canada CEPA Schedule I: Listed substance

Hydrous magnesium silicate (CAS 14807-96-6)

Listed.

Kaolin (CAS 1332-58-7)

Listed.

Mica group minerals (CAS 12001-26-2)

Listed.

Silicic Acid, Zirconium Salt, Cadmium

Listed.

Pigment-encapsulated (CAS 102184-95-2)

Canada DSL Challenge Substances: Listed substance

Crystalline silica (CAS 14808-60-7)

Listed.

Canada Priority Substances List (Second List): Listed substance Hydrous magnesium silicate (CAS 14807-96-6)

Kaolin (CAS 1332-58-7)

Listed.

Mica group minerals (CAS 12001-26-2)

Listed. Listed.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions

Not applicable

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Barium carbonate (CAS 513-77-9)

Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Crystalline silica (CAS 14808-60-7)

Cancer Cancer

Kidney

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

Crystalline silica (CAS 14808-60-7)

lung effects

Silicic Acid, Zirconium Salt, Cadmium

Lung

Pigment-encapsulated (CAS 102184-95-2)

Crystalline silica (CAS 14808-60-7)

immune system effects

Silicic Acid, Zirconium Salt, Cadmium

Pigment-encapsulated (CAS 102184-95-2)

Crystalline silica (CAS 14808-60-7)

kidney effects Acute toxicity

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

Chemical name

CAS number

% by wt.

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated

102184-95-2

5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

See below

US - California Hazardous Substances (Director's): Listed substance

Barium carbonate (CAS 513-77-9)

Hydrous magnesium silicate (CAS 14807-96-6)

Mica group minerals (CAS 12001-26-2)

Silicic Acid, Zirconium Salt, Cadmium

Listed.

Pigment-encapsulated (CAS 102184-95-2)

US - Illinois Chemical Safety Act: Listed substance

Barium carbonate (CAS 513-77-9)

US - Michigan Critical Materials Register: Parameter number

Silicic Acid, Zirconium Salt, Cadmium CADMIUM Pigment-encapsulated (CAS 102184-95-2)

US - Minnesota Haz Subs: Listed substance

Barium carbonate (CAS 513-77-9)
Listed.
Crystalline silica (CAS 14808-60-7)
Listed.
Hydrous magnesium silicate (CAS 14807-96-6)
Kaolin (CAS 1332-58-7)
Listed.
Mica group minerals (CAS 12001-26-2)
Listed.

US - New Jersey RTK - Substances: Listed substance

Barium carbonate (CAS 513-77-9) Crystalline silica (CAS 14808-60-7)

Hydrous magnesium silicate (CAS 14807-96-6)

Kaolin (CAS 1332-58-7)

Mica group minerals (CAS 12001-26-2)

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

US - Texas Effects Screening Levels: Listed substance

Barium carbonate (CAS 513-77-9) Listed. Crystalline silica (CAS 14808-60-7) Listed: Feldspar (CAS 68476-25-5) Listed. Frits, chemicals (CAS 65997-18-4) Listed. Hydrous magnesium silicate (CAS 14807-96-6) Listed. Kaolin (CAS 1332-58-7) Listed. Mica group minerals (CAS 12001-26-2) Listed. Silicic Acid, Zirconium Salt, Cadmium Listed.

Pigment-encapsulated (CAS 102184-95-2)

US - Washington Chemical of High Concern to Children: Listed substance

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

US. Massachusetts RTK - Substance List

Crystalline silica (CAS 14808-60-7)

Hydrous magnesium silicate (CAS 14807-96-6)

Kaolin (CAS 1332-58-7)

Mica group minerals (CAS 12001-26-2)

US. New Jersey Worker and Community Right-to-Know Act

Barium carbonate (CAS 513-77-9)

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Barium carbonate (CAS 513-77-9)

Crystalline silica (CAS 14808-60-7)

Hydrous magnesium silicate (CAS 14807-96-6)

Kaolin (CAS 1332-58-7)

Mica group minerals (CAS 12001-26-2)

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2)

US. Rhode Island RTK

Barium carbonate (CAS 513-77-9)

Crystalline silica (CAS 14808-60-7)

Hydrous magnesium silicate (CAS 14807-96-6)

Kaolin (CAS 1332-58-7)

Mica group minerals (CAS 12001-26-2)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (CAS 14808-60-7) Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2) Listed: October 1, 1988 Listed: October 1, 1987

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2) Listed: May 1, 1997

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Silicic Acid, Zirconium Salt, Cadmium Pigment-encapsulated (CAS 102184-95-2) Listed: May 1, 1997

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Canada

Domestic Substances List (DSL)

No

Canada

Non-Domestic Substances List (NDSL)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No

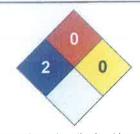
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0







The information in the sheet was written based on the best knowledge and experience currently available, Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty. expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Version#

01

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Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document: