# **SAFETY DATA SHEET**



### 1. Identification

Product identifier SUPER HYBOND 70 PLUS

Other means of identification

Brand Code 5557

Recommended use For Industrial Use Only

**Recommended restrictions** Avoid dry cutting, blasting, or dust generation.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HarbisonWalker International

Address 1305 Cherrington Parkway, Suite 100

Moon Township Pennsylvania 15108 US

**Telephone** General Phone: 412-375-6600

Website www.thinkHWI.com

Emergency phone number CHEMTREC 24 HOUR 1-800-424-9300

**EMERGENCY #** 

Supplier Not available.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified.

Label elements



Signal word Danger

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

**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

Category 1

clothing/eye protection/face protection.

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

**Storage** Store away from incompatible materials.

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

Other hazards None known.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
Mullite		1302-93-8	30 - 50	
Kyanite		1302-76-7	2.5 - 10	

Material name: SUPER HYBOND 70 PLUS

SDS CANADA

Chemical name	Common name and synonyms	CAS number	%
SILICA, AMORPHOUS, FUMED	SILICA, AMORPHOUS, FUMED SILICA (CRYSTALLINE FREE)	7631-86-9	2.5 - 10
SILICA, CRYSTALLINE, QUARTZ		14808-60-7	2.5 - 10
ALUMINUM, WATER SOLUBLE SALTS, N.O.S.		10043-01-3	1 - 3
ETHYLENE GLYCOL		107-21-1	1 - 3
Kaolin		1332-58-7	1 - 3
Titanium Dioxide		13463-67-7	1 - 3
Other components below reportable	e levels		30 - 50

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.

involved, and take precautions to protect themselves.

**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

General information

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

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)

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Use fire-extinguishing media appropriate for surrounding materials.

Not available.

Not applicable.

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

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. 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

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. Avoid prolonged exposure. 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 original tightly closed container. 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	Туре	Value	Form
ALUMINUM, WATER	TWA	1 mg/m3	Respirable fraction.
SOLUBLE SALTS, N.O.S.	IVVA	i ilig/ilio	respirable fraction.
(CAS 10043-01-3)			
ETHYLENE GLYCOL (CAS	Ceiling	100 mg/m3	Aerosol.
107-21-1)		-	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Kyanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE,	TWA	0.025 mg/m3	Respirable fraction.
QUARTZ (CAS 14808-60-7)			
Titanium Dioxide (CAS	TWA	10 mg/m3	
13463-67-7)			
Canada. Alberta OELs (Occupational F	<del>-</del>		Боим
Components	Туре	Value	Form
ALUMINUM, WATER	TWA	2 mg/m3	
SOLUBLE SALTS, N.O.S.			
(CAS 10043-01-3)	0. '''		
ETHYLENE GLYCOL (CAS	Ceiling	100 mg/m3	
107-21-1) Kaslin (CAS 1222 59 7)	T\\/\	2 ma/m2	Poonirohlo
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles
Titanium Dioxide (CAS	TWA	10 mg/m3	
13463-67-7)	1 4 4 / 1	10 mg/mo	
Canada. British Columbia OELs. (Occu	inational Exposure Limite	for Chemical Substances Or	cupational Health and
		Juliania Jubatanicos, Ot	Japanonan meanin and
Safety Regulation 296/97, as amended	)		
	) Type	Value	Form
Components	Туре		
Components ALUMINUM, WATER		Value 1 mg/m3	Form Respirable.
Components ALUMINUM, WATER SOLUBLE SALTS, N.O.S.	Туре		
Components ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3)	Туре		
Safety Regulation 296/97, as amended Components ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)	<b>Type</b> TWA	1 mg/m3	Respirable.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS	<b>Type</b> TWA	1 mg/m3	Respirable.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS	<b>Type</b> TWA	1 mg/m3 100 mg/m3	Respirable. Aerosol.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS	Type TWA Ceiling	1 mg/m3 100 mg/m3 50 ppm	Respirable.  Aerosol.  Vapor.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS	Type TWA Ceiling STEL	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3	Respirable.  Aerosol.  Vapor. Particulate.
Components ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)	Type TWA Ceiling STEL TWA	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3	Respirable.  Aerosol.  Vapor.  Particulate.  Particulate.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7)	Type TWA Ceiling STEL TWA TWA	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 2 mg/m3	Respirable.  Aerosol.  Vapor.  Particulate.  Particulate.  Respirable.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8)	Type TWA Ceiling STEL TWA TWA TWA	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 1 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7)	Type TWA Ceiling STEL TWA TWA TWA TWA TWA	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Respirable.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS,	Type TWA Ceiling STEL TWA TWA TWA TWA TWA	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 1 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Respirable.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE,	Type TWA Ceiling STEL TWA TWA TWA TWA TWA	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Respirable. Total
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	Type TWA  Ceiling  STEL TWA TWA TWA TWA TWA TWA TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Respirable. Total  Respirable. Respirable. Respirable fraction.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS	Type TWA  Ceiling  STEL TWA TWA TWA TWA TWA TWA TWA	1 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Respirable. Total  Respirable.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS	Type TWA  Ceiling  STEL TWA TWA TWA TWA TWA TWA TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 4 mg/m3  1.5 mg/m3 0.025 mg/m3 3 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable. Respirable fraction.  Respirable fraction.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)	Type TWA  Ceiling  STEL TWA TWA TWA TWA TWA TWA TWA TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 4 mg/m3  1.5 mg/m3 0.025 mg/m3 3 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Respirable. Total  Respirable. Respirable fraction.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200)	Type TWA  Ceiling  STEL TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable. Respirable fraction.  Respirable fraction.  Total dust.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200)	Type TWA  Ceiling  STEL TWA TWA TWA TWA TWA TWA TWA TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 4 mg/m3  1.5 mg/m3 0.025 mg/m3 3 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable. Respirable fraction.  Respirable fraction.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS	Type TWA  Ceiling  STEL TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3 4 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable. Respirable fraction.  Respirable fraction.  Total dust.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200) Components  ALUMINUM, WATER	Type TWA  Ceiling  STEL TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable fraction.  Respirable fraction.  Total dust.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200) Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3)	Type TWA  Ceiling  STEL TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3 4 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable fraction.  Respirable fraction.  Total dust.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200) Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S.	Type TWA  Ceiling  STEL TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3 4 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable fraction.  Respirable fraction.  Total dust.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200) Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)	Type TWA  Ceiling  STEL TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 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 10 mg/m3 11 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total  Respirable fraction.  Respirable fraction.  Total dust.  Form  Respirable fraction.  Aerosol.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200) Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1) Kaolin (CAS 1332-58-7)	Type TWA  Ceiling  STEL TWA TWA TWA TWA TWA TWA TWA  TWA  TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 4 mg/m3 1.5 mg/m3 0.025 mg/m3 3 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 2 mg/m3 10 mg/m3 2 mg/m3 100 mg/m3 2 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total Respirable fraction. Respirable fraction.  Total dust.  Form  Respirable fraction.  Aerosol.  Respirable fraction.
Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)  Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)  SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)  Canada. Manitoba OELs (Reg. 217/200/Components  ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3) ETHYLENE GLYCOL (CAS 107-21-1)	Type TWA  Ceiling  STEL TWA	1 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 2 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 10 mg/m3 11 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3	Respirable.  Aerosol.  Vapor. Particulate. Particulate. Respirable. Respirable. Total Respirable fraction. Respirable fraction. Total dust.  Form  Respirable fraction.

Material name: SUPER HYBOND 70 PLUS 5557 Version #: 01 Issue date: 12-03-2018

Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Ontario OELs. (Con	ntrol of Exposure to Biological or Ch	emical Agents)	
Components	Туре	Value	Form
ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3)	TWA	1 mg/m3	Respirable fraction.
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Kyanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE,	TWA	0.1 mg/m3	Respirable fraction.
QUARTZ (CAS 14808-60-7)			
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
	nistry of Labor - Regulation Respecti	ng the Quality of the Work En	
Components	Туре	Value	Form
ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS 10043-01-3)	TWA	2 mg/m3	
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	127 mg/m3	Vapor and mist.
		50 ppm	Vapor and mist.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable dust.
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)	TWA	6 mg/m3	Respirable dust.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.
Canada. Saskatchewan OEI Components	s (Occupational Health and Safety F. Type	Regulations, 1996, Table 21) Value	Form
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.
ogical limit values	No biological exposure limits noted for	or the ingredient(s).	
osure guidelines	Occupational exposure to nuisance of should be monitored and controlled. and respirable crystalline silica should	Occupational exposure to nuisa	espirable crystalline silica nce dust (total and respira
propriate engineering trols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been estable	pplicable, use process enclosur tain airborne levels below recor	res, local exhaust ventilation nmended exposure limits.
vidual protection measures, Eye/face protection	such as personal protective equipm If contact is likely, safety glasses with		d.
Skin protection  Hand protection	Wear appropriate chemical resistant	gloves.	
Other	Use of an impervious apron is recom	mended.	
Respiratory protection	Use a NIOSH/MSHA approved respirexceeding the exposure limits.	rator if there is a risk of exposur	e to dust/fume at levels
	- •	alathian when access	

Wear appropriate thermal protective clothing, when necessary.

Thermal hazards









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 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

(%)

.70)

Flammability limit - upper (%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

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 Hazardous polymerization does not occur.

Not available.

Not available.

reactions

Conditions to avoid

reactions

Contact with incompatible materials.

Incompatible materials 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.

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### 11. Toxicological information

#### Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

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

Expected to be a low ingestion hazard. Ingestion

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. Direct contact with eyes may cause temporary irritation. Serious eve damage/eve

irritation

#### Respiratory or skin sensitization

#### Canada - Alberta OELs: Irritant

ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS Irritant

10043-01-3)

ETHYLENE GLYCOL (CAS 107-21-1) Irritant Titanium Dioxide (CAS 13463-67-7) Irritant

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause 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 guarries 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**

ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS

10043-01-3)

ETHYLENE GLYCOL (CAS 107-21-1)

Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8)

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

Titanium Dioxide (CAS 13463-67-7)

Canada - Alberta OELs: Carcinogen category

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

Canada - Manitoba OELs: carcinogenicity

ALUMINUM, WATER SOLUBLE SALTS, N.O.S. (CAS

10043-01-3)

ETHYLENE GLYCOL (CAS 107-21-1)

Kaolin (CAS 1332-58-7) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8)

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. A4 Not classifiable as a human carcinogen. 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.

Not classifiable as a human carcinogen.

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

Suspected human carcinogen.

Not classifiable as a human carcinogen.

Material name: SUPER HYBOND 70 PLUS 5557 Version #: 01 Issue date: 12-03-2018 Canada - Quebec OELs: Carcinogen category

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

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

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

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

**Developmental effects** 

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

**Embryotoxicity** 

SILICA, CRYSTALLINE, QUARTZ 0

Reproductivity

SILICA, CRYSTALLINE, QUARTZ 0

Specific target organ toxicity -

single exposure

Not classified.

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.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ETHYLENE GLYCOL -1.36

Mobility in soil No data available.

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

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.

Contaminated packaging Not available.

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 Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

Material name: SUPER HYBOND 70 PLUS SDS CANADA 5557 Version #: 01 Issue date: 12-03-2018

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## 15. Regulatory information

#### Canadian regulations

#### **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**

Country(s) or region

Not applicable.

#### **International Inventories**

Australia	Australian Inventory of Chemical Substances (AICS)	No
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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

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

Toxic Substances Control Act (TSCA) Inventory

## 16. Other information

**Issue date** 12-03-2018

Version # 01

United States & Puerto Rico

**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.

Inventory name

Revision information Composition / Information on Ingredients: Component Summary

Toxicological Information: Toxicological Data

**Ecological Information: Ecotoxicity** 

GHS: Classification

Material name: SUPER HYBOND 70 PLUS 5557 Version #: 01 Issue date: 12-03-2018

On inventory (yes/no)\*

No

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).