




SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Crushed Concrete and Asphalt
TRADE NAME AND SYNONYMS:	Crushed Concrete and Asphalt Engineered Granular Material
MANUFACTURER / SUPPLIER:	Strada Aggregates. 30 Floral Parkway, Suite 400 Concord, ON Also applies to Brampton, Markham, Toronto, Etobicoke, Innisfill and Ajax sites. EMERGENCY PHONE NUMBER: (416) 805-2794 8:30 AM to 4:30 PM ET www.strada-aggregates.com
PRODUCT USE:	Engineered fill, granular base, sub-base, neutralizing agent for strong acids
DATE OF PREPARATION:	November 13, 2015

SECTION 2 – HAZARDS IDENTIFICATION

CLASSIFICATION:	Carcinogenicity – Category 1A Target Organ Toxicant – Repeated Exposure (Lung), Category 1
GHS LABEL SYMBOL:	
HAZARD STATEMENTS:	DANGER May Cause Cancer by Inhalation DANGER Causes Damage to Lungs Through Prolonged or Repeated Exposure by Inhalation
PRECAUTIONARY STATEMENTS:	Prevention P201 – Obtain special instructions before use P202 – Do not handle until all safety precautions have been read and understood P260 – Do not breathe dust P264 – Wash hands and face thoroughly after handling P270 – Do not eat, drink, or smoke when using this product P280 – Wear respiratory protection Response P308+P313 – If exposed or concerned: Get medical advice/attention P314 – Get medical advice/attention if you feel unwell Disposal P501 – Dispose of contents/container in accordance with local/provincial/federal regulations

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	CONCENTRATION (PERCENT WEIGHT/WEIGHT)	CAS NUMBER
Portland Cement	30 to 50	65997-15-1
Bituminous Pavement	30 to 50	Not available
Aggregate (various)	10 to 30	Not available
Crystalline silica (as alpha quartz)	0.1 to 1% or 1 to 5%	14808-60-7

SECTION 4 - FIRST AID MEASURES

INHALATION:	If symptoms are experienced (e.g. cough, irritation, etc.), remove victim to fresh air. If irritation persists, seek medical attention.
SKIN CONTACT:	In case of irritation, remove contaminated clothing and flush affected areas with water. If irritation persists, seek medical attention.
EYE CONTACT:	Remove any contact lenses. Immediately and continuously flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
INGESTION:	Do not induce vomiting. Seek medical attention.
PERSONAL PROTECTIVE EQUIPMENT FOR FIRST AID RESPONDERS:	Not applicable

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use agents appropriate for the surrounding fire (e.g. water spray, dry chemical, carbon dioxide, or foam).
HAZARDOUS COMBUSTION PRODUCTS:	Not applicable
SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS:	As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Keep adjacent containers cool by spraying with water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear appropriate personal protective equipment – refer to Section 8 for more information. This would include a particulate respirator if airborne dust is generated at levels warranting respirator use.
ENVIRONMENTAL PRECAUTIONS:	Not applicable
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Avoid generating dust from this product. Clean up using methods that do not generate dust such as HEPA vacuum or wet clean up. Avoid using compressed air for removal of dust.

SECTION 7 – HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT:	Handle in accordance with good industrial hygiene and safety practices. Minimize dust generation. Use adequate ventilation if dust is generated. Avoid contact with skin and eyes.
STORAGE REQUIREMENTS:	Not applicable
SENSITIVITY TO MECHANICAL IMPACT:	Not sensitive
SENSITIVITY TO STATIC DISCHARGE:	Not sensitive

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:	Occupational Exposure Limits (OEL)	
	<i>ACGIH^a</i>	<i>Ontario</i>
	<i>TLV-TWA^b</i>	<i>TWA^c</i>
Particles Not Otherwise Specified (insoluble or poorly soluble)	3 mg/m ³ , Respirable 10 mg/m ³ , Inhalable	3 mg/m ³ , Respirable 10 mg/m ³ , Inhalable
Crystalline silica, quartz	0.025 mg/m ³ Respirable	0.1 mg/m ³ Respirable
Asphalt (Bitumen) fume, as benzene-soluble aerosol	0.5 mg/m ³ , Inhalable	0.5 mg/m ³ , Inhalable

a – American Conference of Governmental Industrial Hygienists, 2015

b – Threshold Limit Value - Time Weighted Average (i.e. 8 hours)

c – Time Weighted Average (i.e. 8 hours) Limit

Consult your local regulatory agency for the occupational exposure limit in effect in your jurisdiction.

GLOVES (SPECIFY):

Avoid prolonged or repeated skin contact to minimize any potential irritation effects. If gross skin contact is likely, wear cotton or leather gloves and cotton or disposable coveralls.

RESPIRATOR (SPECIFY):

If engineering controls and work practices are inadequate in controlling exposures, wear the following NIOSH-approved respirators:

- Half-facepiece 95-series particulate filter respirators for exposures up to 10 times the occupational exposure limit.
- Full-facepiece 95-series particulate filter respirators for exposures up to 50 times the occupational exposure limit.
- Full-facepiece pressure demand supplied-air respirators for exposures up to 2000 times the occupational exposure limit.
- **For entry into or escape from unknown concentrations or firefighting**, wear a full-facepiece positive pressure SCBA.

See CSA Standard Z94.4-11 "*Selection Care and Use of Respirators*" or the "*NIOSH Guide to the Selection and Use of Particulate Respirators (1996)*" for additional information.

EYE (SPECIFY):

Avoid eye contact. Wear safety glasses with side shields or goggles if airborne dust is generated. See CSA Standard Z94.3-07 (R2012) "*Eye and Face Protectors*" or ANSI/ISEA Z87.1-2010 "*American National Standard for Occupational and Educational Personal Eye and Face Protection Devices*" for additional information.

FOOTWEAR (SPECIFY):

As required

OTHER EQUIPMENT (SPECIFY):

Not applicable

ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS, SPECIFY):

Where feasible, airborne dust levels should be reduced through wet methods, dust collection, process enclosure, and enclosed, pressurized employee work stations.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
ODOUR AND APPEARANCE:	Odourless, angular grey//brown/white particles of varying sizes
ODOUR THRESHOLD:	Not applicable

SPECIFIC GRAVITY (WATER=1):	2.6 – 2.8
SOLUBILITY IN WATER	Negligible
CO-EFFICIENT OF WATER/OIL DISTRIBUTION:	Not applicable
VAPOUR PRESSURE:	Not applicable
BOILING POINT (°C):	Not applicable
MELTING/FREEZING POINT (°C):	Not applicable
PH:	Not applicable
VAPOUR DENSITY (AIR=1):	Not applicable
EVAPORATION RATE (BUTYL ACETATE=1):	Not applicable
FLASHPOINT (°C) AND METHOD:	Not applicable
UPPER FLAMMABLE LIMIT (%):	Not applicable
LOWER FLAMMABLE LIMIT (%):	Not applicable
AUTO-IGNITION TEMPERATURE (°C):	Not available
DECOMPOSITION TEMPERATURE (°C):	Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:	Stable under normal conditions of use. This material is used as a neutralizing agent for strong acids.
CHEMICAL STABILITY:	Normally stable. Hazardous polymerization will not occur.
CONDITIONS TO AVOID:	None
INCOMPATIBLE MATERIALS:	Not available
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available, although carbon dioxide may be released on contact with strong acids

SECTION 11 – TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY:	<input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion
ACUTE TOXICITY:	Not available for this product, although it is not expected to be acutely toxic.
SKIN CORROSION/IRRITATION:	May be irritating to the skin
SERIOUS EYE DAMAGE/IRRITATION:	May be irritating to the eyes
RESPIRATORY OR SKIN SENSITIZATION:	Not available
INTERACTIVE EFFECTS:	Conflicting data exists on whether tobacco smoking increases the effects of silica on lung impairment. Concurrent exposure to other carcinogens increases the carcinogenicity of crystalline silica.
MUTAGENICITY:	Not available
CARCINOGENICITY:	<p>This product has not been listed as a carcinogen or a potential carcinogen by the ACGIH, the International Agency for Research on Cancer (IARC), the US National Toxicology Program (NTP) or the US Occupational Safety and Health Administration (OSHA).</p> <p>IARC lists crystalline silica as a Group 1 carcinogen (i.e., carcinogenic in humans, with sufficient epidemiological evidence). ACGIH has classified crystalline silica (quartz and cristobalite) as an A2 suspected human carcinogen (i.e., limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans).</p> <p>Silica is also listed as known to be a human carcinogen by the United</p>

States National Toxicology Program (NTP).

REPRODUCTIVE TOXICITY:

Not available

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:

Not available

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:

May cause respiratory irritation. Long term overexposure to respirable crystalline silica may result in a lung disease known as silicosis. Silicosis is characterized by progressive scarring (or fibrosis) of the lungs and is marked by shortness of breath and impaired lung function. As well as cardiac and respiratory failure, advanced silicosis increases the risk of developing tuberculosis and lung cancer.

ASPIRATION HAZARD:

Not available. Not expected to be of concern.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:

Not available

PERSISTENCE / DEGRADABILITY:

Not available

BIOACCUMULATION / ACCUMULATION:

Not available

MOBILITY IN ENVIRONMENTAL MEDIA:

Not available

OTHER ADVERSE EFFECTS:

Not available

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL:

Clean material can be reused. Waste should be disposed of in accordance with local provincial/state, and federal requirements.

SECTION 14 – TRANSPORTATION INFORMATION

UN NUMBER:

Not available. This product is not listed as Transportation of Dangerous Goods (Canada) or Department of Transport (United States) controlled materials.

UN PROPER SHIPPING NAME:

Not applicable

TRANSPORT HAZARD CLASSES:

Not applicable

PACKING GROUP:

Not applicable

ENVIRONMENTAL HAZARDS:

Not applicable

SPECIAL PRECAUTIONS FOR USER:

Not applicable

SECTION 15 – REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the *Hazardous Products Regulations* and the SDS contains all the information required by the *Hazardous Products Regulations*.

SECTION 16 – OTHER INFORMATION

SDS VERSION#:

November 13, 2015 (Version #2)

The company believes that the information contained herein is factual, the data and information presented are without warranty, guarantees or liability on our part, and are presented to the customer for his or her own consideration, investigation and verification.