

# MATERIAL SAFETY DATA SHEET

## MSDS # 1618 – (ANDESITE) TRAPROCK

### SECTION 1: PRODUCT INFORMATION

**Material Name/Identifier:** (Andesite) Traprock (as HL1, DFC Fines, Manufactured Sand, Filler or Headlap, Backsurfacing, TC1-4, TS104)

**Manufacturer/Supplier's Name:**

IKO Industries Ltd.  
105084 Hwy #7 West  
P.O. Box #839  
Madoc, Ontario K0K 2K0

**Emergency Tel.No.:** 905-457-2880 ext. 3354

**Product Use:** asphalt, roofing shingles, asphalt paving, road sanding, concrete products

### SECTION 2: HAZARDOUS INGREDIENTS

| Chemical Identity       | Percent | CAS #      | PIN# | LD <sub>50</sub> | LC <sub>50</sub> |
|-------------------------|---------|------------|------|------------------|------------------|
| Dark Hard Volcanic Rock | 80-95   | None       | None | N/A              | N/A              |
| (Fine Grained) Quartz   | 5-20    | 14808-60-7 | None | N/A              | N/A              |

### SECTION 3: PHYSICAL DATA

|  |   |
|--|---|
| Physical State:                        | Solid   |
| Odour & Appearance:                    | No odour; angular grey/black/white particles of varying sizes |
| Odour threshold:                       | N/A   |
| Specific gravity:                      | 2.5-2.8   |
| Coefficient of water/oil distribution: | N/A   |
| Vapour pressure:                       | N/A   |
| Boiling Point:                         | N/A   |
| Freezing point:                        | N/A   |
| pH:                                    | N/A   |
| Vapour density:                        | N/A   |
| Evaporation rate:                      | N/A   |
| Per cent Volatile:                     | 0   |

### SECTION 4: FIRE OR EXPLOSION HAZARD

|                                |     |
|--------------------------------|-----|
| Conditions of flammability:    | N/A |
| Means of extinction:           | N/A |
| Explosion data:                | N/A |
| Flashpoint:                    | N/A |
| Upper flammable limit:         | N/A |
| Lower flammable Limit:         | N/A |
| Autoignition temperature:      | N/A |
| Hazardous combustion products: | N/A |

### SECTION 5: REACTIVITY DATA

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Stability: Stable  
Incompatible materials: None known.  
Hazardous decomposition products: None known.

### **SECTION 6: TOXICOLOGICAL PROPERTIES**

Route of entry: Skin contact, eye contact, inhalation.

Effects of acute exposure: Exposure to dust may irritate eyes, skin or respiratory system.

Effects of chronic exposure: Prolonged inhalation of the silica content in the dust may lead to a lung disease known as silicosis. Symptoms include shortness of breath, persistent cough and sputum. In acute cases, respiratory failure may occur resulting in death. Detection of silicosis is provided by chest X-ray.

Exposure limits: TWAEL\*: 0.10 mg/m<sup>3</sup>

\*Time weighted average exposure level **for silica**(RRO 1990, Reg. 845). Worker exposure to silica must be reduced to the lowest practical level. Effort should be made to reduce exposure to at most 0.10 mg/m<sup>3</sup>.

Irritancy of product:

Eye contact: Mechanical irritation may result in eye irritation, redness, scratching and tearing.

Skin contact: Mechanical irritation may result in dryness, itching or redness.

Inhalation: Symptoms may include coughing, sneezing and irritation of the throat and nose.

*See above for chronic inhalation result and potential for the development of silicosis.*

### **Carcinogenicity:**

IARC MONOGRAPH VOLUME 68, 1997 concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC classification: Group 1

### **SECTION 7: PREVENTATIVE MEASURES**

Personal Protective Equipment:

Gloves: Work gloves recommended

Respiratory: Avoid inhalation of dust. Use NIOSH-approved respirator suitable for the airborne concentration level and in compliance with the OSHA.

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**Eye:** Safety glasses with a side shield should be worn as a minimum protection. Dust goggles should be worn when excessively dusty conditions occur.

**Other Equipment:** Protective work clothing should be worn and cleaned after removal. Do not clean by blowing or shaking.

**Engineering Controls:** Proper ventilation is necessary where harmful concentrations of quartz silica may arise. Ventilation systems must be designed and maintained through regular cleaning/replacement of air filters. Consult a reliable text such as Industrial Ventilation, a Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists when designing the system.

**Leak & spill procedures:** Observe Personal Protective Equipment recommendations when cleaning up spilled material to protect personnel from dust exposure. A fine water spray may be used to reduce dust hazard.

**Waste disposal:** Re-use material where possible. Waste material must be disposed of in accordance with applicable federal, provincial and local laws or regulations.

**Handling procedures & equipment:** Refer to sections above for Personal Protective equipment required.

**Storage requirements:** N/A

**Special shipping information:** N/A

### **SECTION 8: FIRST AID MEASURES**

**Dust inhalation:** Remove to fresh air. If symptoms persist, contact a physician.

**Eye contact:** Wash eyes with large amounts of water. If irritation persists, contact physician.

**Skin contact:** Wash thoroughly with soap and water.

### **SECTION 9: PREPARATION INFORMATION**

**Prepared by:** HSE Department  
**Phone:** (905) 457-2880 ext. 3354  
**Date:** August 3, 2015

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