



SAFETY DATA SHEET 2413

MINERAL SURFACE FIBERGLASS BASE ASPHALT SHINGLES

SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

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| PRODUCT NAMES | Cambridge, Marathon, Hip & Ridge, Leading Edge, Superglass, Armor / Mr.Roof |
| TRADE NAME | Mineral Surface Fiberglass Base Asphalt Shingles |
| PRODUCT NUMBERS | 4120xxx, 4150003, 4220xxx, 4460xxx, 4530xxx, 4740xxx, 4780xxx, 4791xxx, 4870xxx, 4910xxx, 4940xxx, 4950xxx, 4960xxx |
| CHEMICAL FAMILY | Not applicable |
| FORMULA | Mixture of asphalt, fiberglass mat, polymers, inert mineral filler, granular surfacing and talc. |
| PRODUCT USE | Residential Shingle Roofing |
| MANUFACTURER/SUPPLIER | IKO Industries Ltd. 1001 Iko Way Hillsboro Texas 76645 |
| WEBSITE | www.iko.com |
| EMERGENCY NUMBER | CANUTEC: 1-613-996-6666 (24 hours information only) |

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The products listed above are considered end-use or manufactured articles, and are not included in the scope of WHMIS 2015 and Globally Harmonization System (GHS). As such, the GHS/WHMIS labeling elements and classification are not included on this SDS.

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| SIGNAL WORD | Not applicable. |
| SYMBOL(S) | Not applicable. |
| CLASSIFICATION | Not applicable. |
| HAZARD STATEMENTS | H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H351 Suspected of causing cancer |
| PRECAUTIONARY STATEMENTS | P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P281 Use personal protective equipment as required. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. |



SAFETY DATA SHEET 2413

MINERAL SURFACE FIBERGLASS BASE ASPHALT SHINGLES

P314 Get medical advice/attention if you feel unwell.
P308+P313 If exposed or concerned: Get medical attention.
P501 Dispose of content/container in accordance with local/regional/
national/international regulation.

NFPA No information available.

HMIS No information available.

SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

| HAZARDOUS CHEMICAL NAME | % (w/w) | CAS NUMBER |
|-----------------------------|---------|-------------------|
| Coloured Granules | 35 – 40 | n/a |
| Limestone | 35 – 40 | 1317-65-3 |
| Oxidized Asphalt (Bitumen) | 20 | 64742-93-4 |
| Crystalline Silica (Quartz) | 2 - 10 | 14808-60-7 |
| Talc | 3 – 5 | 14807-96-6 |
| Fiberglass Mat | 2 | n/a |
| Polymers | ≤ 1 | (proprietary mix) |
| Carbon Black | 0 - 0.5 | 1333-86-4 |
| Titanium Dioxide | 0 - 0.5 | 13463-67-7 |
| Copper Oxide | 0 - 0.5 | 1317-39-1 |

SECTION 4 – FIRST AID

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| INHALATION | If affected asphalt odor, remove victim to fresh air. Seek medical aid if symptoms persist. |
| INGESTION | Not expected to be ingested. If ingested: rinse mouth, drink plenty of water and immediately call for medical help. |
| SKIN CONTACT | Routine first aid treatment for cuts and abrasions from handling. Wash hands with soap and water after handling. |
| EYE CONTACT | Flush affected eye in a stream of water for at least 15 minutes. Consult doctor if eye(s) are inflamed. |
| ACUTE AND CHRONIC SYMPTOMS | Refer to section 11, Toxicological Information, for additional information. |
| MEDICAL ATTENTION | No additional information available. |



SAFETY DATA SHEET 2413

MINERAL SURFACE FIBERGLASS BASE ASPHALT SHINGLES

SECTION 5 – FIRE-FIGHTING MEASURES

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| EXTINGUISHING MEDIA | Water spray, dry chemical, or carbon dioxide |
| FIRE FIGHTING | No specific information available. |
| FLAMABILITY | Not flammable |
| PROPERTIES: | |
| FLASH POINT | Not applicable |
| FLAMMABLE LIMITS IN AIR | Not applicable |
| AUTO IGNITION TEMPERATURE | Not applicable |
| SPECIAL PPE FOR FIRE-FIGHTERS | Use NIOSH approved self-contained breathing equipment when exposed to product flames or fire, as product will emit very toxic fumes on thermal degradation. |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES | Ensure adequate ventilation. |
| ENVIRONMENTAL PRECAUTIONS | No information available |
| SPILL MANAGEMENT | Normal housekeeping measures. Pick up large pieces and dispose of in accordance with Local, State, Federal and Provincial regulations. |

SECTION 7 - HANDLING AND STORAGE

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|---------------------|---|
| HANDLING PROCEDURE | When handling the material, wear the appropriate personal protective equipment described in section 8. |
| STORAGE PRECAUTIONS | Store in a dry location protected from the elements, high temperature and flames/sparks. |
| OTHER PRECAUTIONS | Comply with local safety standards and codes for roof work. Always use Fall Protection Systems when working on roofs. Do not walk on material that has not been securely fastened to the roof deck. |



SAFETY DATA SHEET 2413

MINERAL SURFACE FIBERGLASS BASE ASPHALT SHINGLES

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

| CHEMICAL NAME | OCCUPATIONAL EXPOSURE LIMITS | | | | |
|----------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | ALBERTA | ONTARIO | BRITISH COLUMBIA | OSHA | ACGIH |
| Oxidized Asphalt (Bitumen) Fumes | TWA : 5 mg/m ³ | TWA : 0.5 mg/m ³ | TWA : 0.5 mg/m ³ | No information available | TWA : 0.5 mg/m ³ |
| Crystalline Silica (Quartz) | TWA : 0.025 mg/m ³ | TWA : 0.10 mg/m ³ | TWA : 0.025 mg/m ³ | TWA : 0.05 mg/m ³ | TWA : 0.025 mg/m ³ |
| Talc | TWA : 2 mg/m ³ | TWA : 2 mg/m ³ | TWA : 2 mg/m ³ | TWA : 20 mppcf | TWA : 2 mg/m ³ |
| Titanium Dioxide | TWA : 10 mg/m ³ | TWA : 10 mg/m ³ | TWA : 10 mg/m ³ | TWA : 15 mg/m ³ | TWA : 10 mg/m ³ |
| Carbon Black | TWA : 3.5 mg/m ³ | TWA : 3 mg/m ³ | TWA : 3 mg/m ³ | TWA : 3.5 mg/m ³ | TWA : 3 mg/m ³ |

ENGINEERING MEASURES Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION Not required under normal conditions of use. Wear NIOSH approved respiratory protection if dust or asphalt fume levels are above standard exposure limits.

SKIN AND BODY PROTECTION Minimize skin contact. Protective gloves may be used when handling material.

EYE PROTECTION Use safety glasses or goggles when necessary.

HYGIENE MEASURES Wash hands with soap after handling.

OTHER CONTROLS If contact is unavoidable, wear all necessary protective gear.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.) Solid, various colors, sheet material

ODOR Slight asphalt odor

ODOR THRESHOLD No information available.

PH No information available.

MELTING POINT/FREEZING POINT No information available.



SAFETY DATA SHEET 2413

MINERAL SURFACE FIBERGLASS BASE ASPHALT SHINGLES

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|---|---------------------------|
| INITIAL BOILING POINT AND BOILING RANGE | Not applicable. |
| FLASH POINT | Not applicable. |
| EVAPORATION RATE | Not applicable. |
| FLAMMABILITY | Not flammable. |
| UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS | Not applicable. |
| VAPOR PRESSURE | Not applicable. |
| VAPOR DENSITY | No information available. |
| MOLECULAR WEIGHT | No information available. |
| SOLUBILITY(IES) | Insoluble |
| PARTITION COEFFICIENT: N-OCTANOL/WATER | No information available. |
| AUTO-IGNITION TEMPERATURE | No information available. |
| SPECIFIC GRAVITY | > 1.0 |
| VISCOSITY | No information available. |

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:

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|------------------------------------|---|
| CHEMICAL STABILITY | Stable at ambient temperatures |
| POSSIBILITY OF HAZARDOUS REACTIONS | No information available |
| CONDITIONS TO AVOID | Avoid excessive heat. |
| INCOMPATIBLE MATERIALS | Strong oxidizers, strong acids, alkalis |
| HAZARDOUS DECOMPOSITION PRODUCTS | CO _x , SO _x , NO _x , smoke, hydrogen sulfide |



SAFETY DATA SHEET 2413

MINERAL SURFACE FIBERGLASS BASE ASPHALT SHINGLES

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY

WARNING: This product may contain crystalline silica (quartz). IARC MONOGRAPH VOLUME 68, 1997 concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC classification: Group 1

WARNING: This product may contain carbon black. IARC concludes that Carbon Black is possibly carcinogenic to humans IARC classification: Group 2B.

WARNING: This product may contain Titanium Dioxide. IARC concludes that Titanium Dioxide is possibly carcinogenic to humans. IARC classification: Group 2B

WARNING: This product may contain oxidized bitumens. The International Agency for Research on Cancer (the "IARC") published a monograph in 2013 which concluded that "occupational exposure to oxidized bitumens and their emissions during roofing operations are probably carcinogenic to humans". This warning may be updated at such time as a final determination is made and IARC has published its monograph on the matter. IARC classification: Group 2A

The IARC found that there is "limited evidence" in humans for the carcinogenicity of occupational exposures to bitumens and bitumen emissions during roofing and mastic-asphalt work. The IARC also found that there is "sufficient evidence" in experimental animals for carcinogenicity of fume condensates generated from oxidized bitumen. All other evidence of cancer in humans and experimental animals was judged "inadequate" or "limited." The physical nature of this product may help limit any inhalation hazard from oxidized asphalt during application in its hardened state. However, physical forces such as grinding, drilling and other demolition work on this product may liberate dust containing oxidized asphalt. Burning or heating of the product may cause fumes, vapors or mists.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No information available.

PRIMARY ROUTE OF EXPOSURE

Inhalation

HEALTH EFFECTS:

EYES Excessive dust may cause mechanical eye irritation.

SKIN Possible skin irritation and dermatitis.

INHALATION Asphalt odor may cause mild respiratory irritation, nausea, headache and/or dizziness.

INGESTION Ingestion is unlikely. If ingested, may cause irritation of the digestive tract.



SAFETY DATA SHEET 2413

MINERAL SURFACE FIBERGLASS BASE ASPHALT SHINGLES

STOT (SPECIFIC TARGET ORGAN TOXICITY)-
SINGLE EXPOSURE No information available.

STOT (SPECIFIC TARGET ORGAN TOXICITY) –
REPEATED EXPOSURE No information available.

CARCINOGENICITY Crystalline silica (quartz) is listed as IARC Group 1 (is carcinogenic to humans).

Oxidized asphalt is listed as IARC Group 2A (probably carcinogenic to humans).

Titanium Dioxide and Carbon Black are listed as IARC Group 2B (possibly carcinogenic to humans).

REPRODUCTIVE TOXICITY:

DEVELOPMENT OF OFFSPRING No information available.

SEXUAL FUNCTION AND FERTILITY No information available.

GERM CELL MUTAGENICITY No information available.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY No information available.

PERSISTENCE & DEGRADABILITY No information available.

BIODEGRADATION MOBILITY No information available.

BIOACCUMULATION POTENTIAL No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS Follow federal, provincial/state and municipal regulations.

SECTION 14 – TRANSPORT INFORMATION

No information available.



SAFETY DATA SHEET 2413

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SECTION 15 - REGULATIONS

No information available.

SECTION 16 – OTHER INFORMATION

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|----------------------------|---|
| REVISION DATE OF SDS | December 11, 2018 |
| REPLACES THE MSDS/SDS FROM | (new) |
| PREPARED BY | HSE department |
| GENERAL INFORMATION | 1-888-766-2468 |
| WEBISTE | www.iko.com |
| OTHER INFO/DISCLAMERS | Read this Safety Data Sheet before handling or disposing of this product. |

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.

NOTE: Under government regulations, an SDS is not required for this material; it is an end use product.