MATERIAL SAFETY DATA SHEET

MSDS # 1627 – LIMESTONE, FILLER

Section I: PRODUCT INFORMATION

Material Name/Identifier:	**LIMESTONE, FILLER**
Manufacturer/Supplier's Name:	IKO Industries Ltd. PO Box 839, 105084 Hwy 7 West Madoc, Ontario K0K 2K0 Canada
Emergency Tel. No.:	(905) 457-2880 ext. 3354
Product Use:	Asphalt, roofing shingles

Section II: IDENTIFICATION

CHEMICAL NAME	CHEMICAL FORMULA	MOLECULAR WEIGHT
Limestone	$CaCO_3$	Not Applicable

TRADE NAME/SYNONYMS	DOT IDENTIFICATION NO.
Calcium Carbonate, Pulverized Limestone, Ground Limestone, Ground Calcium Carbonate, GCC	Not Restricted

Section III: PRODUCT AND COMPONENT DATA

COMPONENT(S) CHEMICAL NAME	CAS REGISTRY NO.
Calcium Carbonate	1317-65-3
Silica (concentrations of less than 1.5%)	14808-60-7

% APPROXIMATE	ACGIH TLV-TLW	OSHA PEL
$CaCO_3$ 95-100 Silica less than 1.5%	See Section VII	See Section VII

Section IV: PHYSICAL DATA

APPEARANCE & ODOR	SPECIFIC GRAVITY
White, Odorless Grains	2.71

BOILING POINT	VAPOR DENSITY (AIR=1)	INCOMPATIBILITY (Materials to Avoid)
N/A	N/A	None Known

VAPOR PRESSURE	% VOLATILE, BY VOLUME
N/A	N/A

EVAPORATION RATE	SOLUBILITY IN WATER	HAZARDOUS POLYMERIZATION
N/A	Insoluble	Will not occur

Section V: REACTIVE DATA

STABILITY	CONDITIONS TO AVOID
Stable	None Known

HAZARDOUS DECOMPOSITION PRODUCTS
Respirable dust may be generated by handling and may contain a small amount of silica

Section VI: FIRE AND EXPLOSION DATA

FLASHPOINT (Method Used)	FLAMMABLE LIMITS IN AIR
Not flammable	Not flammable

EXTINGUISHING AGENTS	UNUSUAL FIRE & EXPLOSION HAZARDS
None required	None known

Section VII: TOXICITY AND FIRST AID

EXPOSURE LIMITS (When exposure to this and other chemicals is concurrent, the exposure limit must be defined in the workplace)

Unless specified otherwise, limits are expressed as Milligrams of Substance per Cubic Meter of Air

	ACGIH-TLV	OSHA	
$CaCO_3$	10.0 for Total Dust / 5.0 for Respirable Dust	15.0 for Total Dust / 5.0 for Respirable Dust	TLV=Threshold Limit Value
Silica	0.1 mg/m_3 TWA For Respirable Dust	10/(%Quartz + 2) PEL For Respirable Dust	TWA – Time Weighted Average

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Nuisance Dusts have little adverse effect on lungs and do not produce significant organic disease or toxic effects when exposures are kept below occupational exposure limits.

PRIMARY ROUTES OF EXPOSURE:	INHALATION	X		SKIN		

ACUTE TOXICITY Exposure to dust may irritate respiratory system, eyes and skin

Contact ..... No adverse effects

MATERIAL SAFETY DATA SHEET

MSDS # 1627 – LIMESTONE, FILLER

	Eye Contact ..... May cause irritation if exposed to large amounts of dust
	Skin Absorption ..... No adverse effects
	Ingestion ..... Non-hazardous
FIRST AID	Dust in Eyes..... Flush with water. Contact a Physician if irritation persists or later develops.
	Dust on Previously Irritated Skin..... Wash with soap and water. Contact a Physician if irritation is aggravated.
	Dust Inhalation..... Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a Physician if irritation persists or later develops.

CHRONIC TOXICITY Effect and hazards of chronic exposure:

There is no reported health effects associated with repeated or prolonged exposure to pure calcium carbonate.

Overexposure to calcium carbonate dust may increase the risk of developing pneumoconiosis (lung disease). Being a naturally occurring mineral, these products contain minimal amounts of crystalline silica as an impurity. Prolonged exposure to respirable crystalline silica at levels above the occupational exposure limits may increase the risk of developing silicosis. IARC has classified crystalline silica as a Class 1 human carcinogen.

Section VIII: PERSONAL PROTECTION AND CONTROLS

HMIS RATING SYSTEM	C.A.S. No. 1317-65-3		
HEALTH HAZARD	**FLAMMABILITY HAZARD**	**REACTIVITY HAZARD**	**MAXIMUM PERSONAL PROTECTION**
0*	0	0	A
No acute effects			

RESPIRATORY PROTECTION

NIOSH-MSHA approved dust respirators for conditions where dust levels exceed or are likely to exceed appropriate exposure limits. Respirator use must comply with applicable MSHA or OSHA standards, which include provisions for a user training program, respirator fit testing and other requirements.

VENTILATION

Local exhaust or general ventilation adequate to maintain exposures below appropriate exposure limits.

SKIN PROTECTION See HYGIENE section below

EYE PROTECTION

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or anticipated.

HYGIENE

Wash dust exposed skin with soap and water. Wash work clothes after each use. Sweep up spills and keep work area clean.

OTHER CONTROL MEASURES

Respirable dust levels should be monitored regularly when appropriate exposure limits are likely to be exceeded.

Section IX: STORAGE AND HANDLING PRECAUTIONS

Respirable Dust may be generated during processing, handling and storage. The controls identified in Section VIII of this MSDS should be applied as appropriate. Suggest storage or warehousing in a dry area.

Section X: SPILL, LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

The controls identified in Section VIII of this MSDA should be applied as appropriate. Spilled materials, where dust can be generated, may over expose cleanup personnel to respirable dust. Wetting of spilled materials and/or use of respiratory protective equipment (dust masks) may be necessary. None of the components in this product are subject to the reporting requirements of *Title III of SARA 1986 and 40 CFR 261*.

WASTE DISPOSAL METHOD

Dispose of this material only in accordance with applicable Federal, State, and Local Laws and regulations. Pickup and reuse clean materials. Limestone makes an excellent neutralizer for spilled acids. Material may be spread on lawns or fields to promote plant growth.

MATERIAL SAFETY DATA SHEET

MSDS # 1627 – LIMESTONE, FILLER

Section XI: TRANSPORTATION	
DOT HAZARD CLASSIFICATION	**PLACARD REQUIRED**
None	None

LABEL REQUIRED

Label is required by the OSHA Hazard Communications Standard (29 CFR 191.1200[F]) and applicable State and Local regulations.

FOR FURTHER INFORMATION CONTACT:

IKO Industries Ltd.

Tel: (905) 457-2880 Ext 3354

Attention: HSE Department

Issued: August 3, 2015

The information contained in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation of warranty, express or implied, regarding the accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of, or in any way connected with handling, storage, use or disposal of the products.