MATERIAL SAFETY DATA SHEET

SECTION 1: General Product and Company Information

CONTINENTAL MATERIALS, INC.
1614 OLD YORK ROAD
ABINGTON, PA 19001

PHONE: 215-884-4930
FAX: 215-887-4485

CREATION DATE OF DATA SHEET: 8-14-13

PRODUCT NAME: CMI ALL-WEATHER APP 160 SMOOTH, CMI ALL-WEATHER APP 180 GRANULATED
TRADE NAME: MODIFIED BITUMEN - ROLL ROOFING

SECTION 2: Information on Ingredients

CHEMICAL NAME	CAS#	% (BY WT)	OSHA	ACGIH	OTHER
OXIDIZED ASPHALT	64742-93-4	40-45	NE	0.5 mg/m3 (inhalable fraction, as benzene-soluble aerosol)	5 mg/m3 - ceiling (15 min. fumes)
GRANULES	-	~30	NE	NE	NE
LIMESTONE	1317-65-3	~15	5MG/M3 resp. 15mg/m3 total	3mg/m3 resp. 10mg/m3 total	REL: 5 mg/m3 resp. total
TITANIUM DIOXIDE	13463-67-7	0-4	15mg/m3 total	10mg/m3 total	
SILICA, CRYSTALINE QUARTZ	14808-60-7	0.1-1	10mg/m3 / (% SiO2 + 2) resp.	0.025 mg/m3	REL: 5 mg/m3 resp.

NE = Not Established

SECTION 3: Health Hazard Data

PRIMARY ROTE OF EXPOSURE: Occasional nuisance dust, Inhalation

SIGNS AND SYMPTOMS OF EXPOSURE:

EYES: May cause irritation to the eyes.

SKIN: May cause irritation to the skin.

INGESTION: This product is not intended to be ingested. If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

INHALATION: May cause irritation to the respiratory tract.

ACCUTE HEALTH HAZARDS: NIOSH has found that studies of workers exposed to asphalt fumes have repeatedly found irritation of the serous membranes of the conjunctivae (eye irritation) and mucous membranes of the upper respiratory tract (nasal and throat irritation).

CHRONIC HEALTH HAZARDS: Studies in humans have found that exposure to respirable crystalline silica (quartz) can cause silicosis, a fibrous (scarring) of the lungs. Silicosis is a serious and irreversible disease; it may be progressive even after exposure has ceased; it can lead to disability and death. Human studies also have found that silicosis is a risk factor for tuberculosis, and that occupational exposure to respirable crystalline silica is

associated with chronic obstructive pulmonary disease, including bronchitis and emphysema. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica.

CARCINOGENICITY: IARC has determined that occupational exposure to oxidized asphalt and its emissions is probably carcinogenic (Group 2A). IARC concluded that available data from cancer studies in humans points to an association between exposures to oxidized asphalts during roofing and lung cancer and tumors in the upper aero-digestive tract. In addition, IARC found sufficient evidence of carcinogenicity in experimental animals for extracts and fume condensates of oxidized asphalts.

NIOSH has concluded that the collective data from human, animal, genotoxicity and exposure studies provide sufficient evidence that roofing asphalt fumes are a potential occupational carcinogen.

Occupational exposure to respirable crystalline silica is classified as a known carcinogen in humans. IARC has determined that respirable crystalline silica is carcinogenic to humans (Group 1), based on findings of sufficient evidence of carcinogenicity in both humans and experimental animals. NTP has classified respirable crystalline silica as a known human carcinogen based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between occupational exposure to respirable crystalline silica and increased lung cancer rates. NIOSH has determined that respirable silica is a potential occupational carcinogen.

IARC had determined that occupational exposure to Titanium Dioxide is possibly a carcinogen to humans (Group 2B). IARC concluded lung tumors were observed in rats following high dose exposure by inhalation and in female rats exposed by intra-tracheal installation. Other studies have shown no tumors in rats following inhalation exposure and no tumors in mice or rats following oral exposure.

SECTION 4: First Aid Measures

FIRST AID MEASURES:

Eye Contact: Hold eyelids open and wash with gentle stream of water for at least 15 minutes preferably at an eyewash fountain.

Skin Contact:

Hot Material – Immediately drench or immerse the affected area in water to assist in cooling. Apply ice cold water or ice packs to burned area. **Do Not** use iced water or ice packs if the area of burn covers more than 10% of the body as it may contribute to shock. **Do Not** try to remove the asphalt from the affected area after it has cooled. Get immediate medical attention. Medical personnel will be able to soften and remove the cooled asphalt with petroleum jelly or mineral oil.

Cold Material – Clean exposed skin with mild soap and water. If skin irritation continues, call a medical doctor.

Inhalation: If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist seek medical attention.

Ingestion: Not expected to be ingested.

SECTION 5: Fire and Explosion Hazard Info and Data

EXTINGUISHING MEDIA: Use water spray, CO2, dry chemical or foam.
UNSUITABLE MEDIA: **Do Not** use water directly on asphalt fires as it may cause violent eruptions and the spread of hot asphalt.
SPECIAL FIRE FIGHTING PROCEDURES: NIOSH-approved self contained breathing apparatus is recommended for smoke protection.
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A
HAZARDOUS COMBUSTION BYPRODUCTS: Primary combustion byproducts are carbon monoxide, and carbon dioxide.

SECTION 6: Accidental Release Measures

ACCIDENTAL RELEASE MEASURES: Pick up large pieces. Avoid creating dusts during clean up.

SECTION 7: Handling and Storage

HANDLING: Appropriate personal protective equipment should be worn handling this material especially when hot.
STORAGE: Store packaged asphalt in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep away from heat, sparks or open flame.

SECTION 8: Exposure Controls / Personal Protection

ENGINEERING CONTROLS/ VENTILLATION: N/A

RESPIRATORY PROTECTION: N/A under normal use conditions. In circumstances where dust or fumes are generated and may exceed allowable exposure levels, appropriate NIOSH approved respiratory protection is recommended.

EYE PROTECTION: Wear safety glasses with side shields.

SKIN PROTECTION: Cotton or leather gloves are recommended when handling.

WORK HYGIENIC PRACTICES: Wash exposed skin prior to eating, drinking or smoking and at end of work shift.

EXPOSURE GUIDELINES: These products should be handled using methods and techniques that minimize or eliminate dust or fume generation.

SECTION 9: Physical Data

APPERARANCE & ODOR	Thin Black sheet in roll form. may be surfaced with granules, talc, sand or film. Slight asphalt odor.		
FLASH POINT:	>500˚F	**LOWER EXPOSURE LIMIT:**	No Data
METHOD USED:	C.O.C.	**UPPER EXPOSURE LIMIT:**	No Data
EVAPORATION RATE:	No Data	**BOILING POINT:**	No Data
pH (undiluted product):	No Data	**MELTING POINT:**	No Data
SOLUBILITY IN WATER:	No Data	**SPECIFIC GRAVITY:**	No Data
VAPOR DENSITY:	No Data	**PERCENT VOLATILE:**	No Data
VAPOR PRESSURE:	No Data	**MOLECULAR WT:**	No Data
VOC WITH WATER (LBS/GAL):	No Data	**WITHOUT WATER (LBS/GAL)**	No Data

SECTION 10: Stability and Reactivity Data

THERMAL STABILITY: Stable under normal conditions
CONDITIONS TO AVOID: None known.
INCOMPATIBILITY (material to avoid): None known.
HAZARDOUS POLYMERIZATION: Does not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION 11: Toxicological Information

TOXICALOGICAL INFORMATION: None available for this product. See section 3.

SECTION 12: Ecological Information

ENVIRONMENTAL: No data available for this material.

SECTION 13: Disposal Considerations

WASTE DISPOSAL METHOD: This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local disposal regulations.

RCRA HAZARD CLASS: None

SECTION 14: Transport Information

U.S. DOT TRANSPORTATION:

PROPER SHIPPING NAME:	**N/A**
HAZARD CLASS:	**N/A**
ID NUMBER:	**N/A**
PACKING GROUP:	**N/A**
LABEL STATEMENT:	**N/A**
OTHER:	**N/A**

SECTION 15: Regulatory Information

U.S. FEDERAL REGULATIONS:

TSCA: This product and its components are listed on the TSCA 8(b) inventory.

CERCLA: None

SARA:

311/312 HAZARD CATEGORIES: None.

313 REPORTABLE INGREDIENTS: None.

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS#	CA	MA	MN	NJ	PA	RI
Oxidized Asphalt	64742-93-4	No	No	No	No	No	No
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes	No	Yes	Yes

SECTION 16: Other Information

MSDS REVISION DATE: NEW August 2013

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