



Bringing Integrity to the Surface.®

MATERIAL SAFETY DATA SHEET

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Emergency Phone Number (CHEMTREC): 800-424-9300

HMIS HAZARD RATING	
1	HEALTH
1	FIRE
0	REACTIVITY

I. PRODUCT INFORMATION

TRADE NAME UNIMIX	C.A.S. NUMBER Mixture
SYNONYMS Cold Mix Asphalt, Pothole Patch, Patch Mix	PRODUCT CODE NUMBER 100

II. PHYSICAL DATA

BOILING POINT @ 760 MM Hg > 340 °F (for MC-250)	% VOLATILES BY VOLUME Negligible	SOLUBILITY IN H2O BY WEIGHT % Immiscible
SPECIFIC GRAVITY 1.0 ± 0.2 @ 60°F (for MC-250)	MELTING POINT Not Applicable	EVAPORATION RATE (BUTYL ACETATE = 1) Not Applicable
VAPOR DENSITY (AIR = 1) > 5.0 (for MC-250)	VAPOR PRESSURE Very Low	APPEARANCE AND ODOR Black-coated Rock and Sand

III. HAZARDOUS COMPONENTS

C.A.S. NUMBER	MATERIAL OR COMPONENT	%	HAZARD DATA
8052-42-4	[1] Asphalt	5 - 6	TLV/TWA - 5mg/m ³ for asphalt fumes TLV/STEL - 10 mg/m ³ for asphalt fumes
8008-20-6	[2] Kerosene	1 - 2	TLV/TWA - Not Available

IV. HEALTH HAZARD INFORMATION

EXPOSURE LIMITS	TLV/TWA 5 mg/m³ for asphalt	TLV/STEL 10 mg/m³ for asphalt	TLV/PEL	ODOR THRESHOLD LIMIT 3 ppm
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ROUTES OF EXPOSURE AND EFFECTS AS REQUIRED BY 29CFR1910.1200

INHALATION	Asphalt fumes generated at high temperatures may cause irritation to the nose, throat, and respiratory system.
INGESTION	High viscosity oils, i.e. asphalt, have been shown to be less toxic when ingested than lower viscosity, higher volatility oils.
SKIN ABSORPTION	Skin absorption could occur through normal skin contact and/or through wounds exposed to asphalt products. Effects may include irritation, dermatitis, and oil acne. Health effects are not expected if proper personal safety and hygiene is observed
SKIN CONTACT	This material contains rocks and sand, which can cause skin abrasions. Contact with material may cause dermatitis and oil acne. Contact with heated material can cause serious burns.
EYE CONTACT	This material contains sand, which can cause corneal abrasions if introduced to the eyes. Direct contact with the material can cause serious burns.
ACUTE OVEREXPOSURE	Any pre-existing skin or respiratory conditions may be aggravated by exposure to this product. Skin effects include irritation, dermatitis, and oil acne.
CHRONIC OVEREXPOSURE	Chronic health effects are not expected if proper personal safety and hygiene is observed. Pre-existing skin disorders may be aggravated by repeated or prolonged exposure to this product.

V. EMERGENCY AND FIRST AID PROCEDURES

INHALATION	If breathing is difficult, move person to fresh air or administer oxygen and seek prompt medical attention.
INGESTION	DO NOT induce vomiting. In general, emesis induction is unnecessary for high viscosity, low volatility oils such as asphalt and grease. Avoid all digestible oils, fats, and alcohol which may increase intestinal absorption. Seek medical attention.
SKIN CONTACT	If contact occurs when material is hot, flush area with water to cool. Wash affected area with waterless hand cleaner, medicinal paraffin, vegetable oil or mineral oil followed by water and a mild detergent. DO NOT use solvents! For relief from irritation, apply hand lotion. If irritation persists, seek medical attention.
EYE CONTACT	Flush eyes with water for 15 minutes while holding eyelids open. If subject is wearing contact lenses, immediately seek an ophthalmologist for treatment.

VI. SPECIAL PROTECTION INFORMATION

VENTILATION	Care must be taken to assure that the TLV/TWA of 5mg/m³ for oil mist is not exceeded. Normal exterior application should not require the need for mechanical ventilation.	PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY PROTECTION	If needed, use an approved OSHA/NIOSH particulate and organic vapor canister respirator, or a positive atmosphere supplied air respirator as described in 29 CFR 1910.134.	DUST/ORGANIC VAPOR RESPIRATOR
EYE PROTECTION	Safety Glasses shield are recommended when handling this material.	SAFETY GLASSES
SKIN PROTECTION	Flannel-lined Neoprene or Nitrile gloves are recommended.	CHEMICAL RESISTANT GLOVES
OTHER PPE	Rubber or leather footwear is recommended. All clothing saturated with this product should be discarded.	BOOTS

VII. FIRE AND EXPLOSION DATA

FLASH POINT > 200 °F (for MC-250)	AUTOIGNITION TEMPERATURE Not Determined	LOWER FLAMMABLE LIMIT Not Determined
EXTINGUISHING MEDIA This product contains water and will not burn until all moisture has been removed. If fire should occur, extinguish with foam, carbon dioxide or dry chemical extinguishers.		
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective equipment and self-contained breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZARDS Water sprayed on burning product may cause frothing, steam, and eruptions. This material contains rocks, which may shatter due to heat or sudden cooling by water.		

VIII. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY	Avoid sources of ignition at elevated temperatures.
INCOMPATIBILITY	Petroleum solvents, such as gasoline and diesel fuels, will dissolve the oil coating on the aggregate.
HAZARDOUS DECOMPOSITION PRODUCTS	Irritating or toxic vapors may be released when this material is burned. Possible thermal decomposition gases include hydrogen sulfide, carbon monoxide, carbon dioxide, and sulfur dioxide.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION	None known.

IX. SPILL AND LEAK PROCEDURES

SPILL CONTROL PROCEDURE

If material enters a waterway, notify police, local EPA and the National Response Center (1-800-424-8802).

NEUTRALIZING CHEMICALS

Not Applicable.

WASTE DISPOSAL

If disposal is necessary, contact your state environmental agency for guidance with disposal methods and waste receiving locations in your area.

X. SPECIAL PRECAUTIONS

ENVIRONMENTAL

1. This product is considered oil under EPA-CWA Section 311. Spills into water sources must be reported to 1-800-424-8802.
2. If this product becomes a waste material, refer to 40 CFR 261.21 (RCRA) for latest waste disposal regulations and waste stream number.
3. This product is listed in the EPA/TSCA inventory (40 CFR 700 to end).

LABELING

1. "Ignitable vapors may collect in container head space" wording is advised.
2. This material is not regulated by the Department of Transportation.

XI. REFERENCES

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| 1. BITUMEN SAFETY CODE (ISBN-085501-319-2) | 7. HYGIENE AND SANITATION, VOLUME 33 |
| 2. NIOSH - OCCUPATIONAL EXPOSURE TO ASPHALT FUMES | 8. NFPA 325M, 704 |
| 3. CLINICAL TOXICOLOGY OF COMMERCIAL PRODUCTS, 5TH EDITION | 9. POISONING, TOXICOLOGY, SYMPTOMS, TREATMENTS |
| 4. DOCUMENTATION OF THRESHOLD LIMIT VALUES, 4TH EDITION | 10. 29 CFR AND 40 CFR AS NOTED WITHIN |
| 5. DANGEROUS PROPERTIES OF INDUSTRIAL CHEMICALS, 6TH EDITION | 11. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES |
| 6. EPA/CWA SECTION 311 | |

NOTE: This material safety data sheet is intended as a source of information for persons involved in any and all phases of handling this material, from production to final application, as required by 29 CFR 1910.1200. The health data provided is based on the nature of the raw constituents. This material is a mixture and the health effects as such have not been evaluated.

XII. ENVIRONMENTAL INFORMATION

1. THIS PRODUCT CONTAINS THE FOLLOWING EXTREMELY HAZARDOUS SUBSTANCE(S)

(SECTION 302 AND 304):	COMPONENT	TPQ(LBS)	RQ(BLS)
	N/A	N/A	N/A

2. THIS PRODUCT CONTAINS THE FOLLOWING CERCLA HAZARDOUS SUBSTANCE(S)

(SECTION 302 AND 304):	COMPONENT	RQ(LBS)	WEIGHT %
	N/A	N/A	N/A

3. THIS PRODUCT HAS THE FOLLOWING HAZARDS (SECTION 311 AND 312):

	YES	NO
IMMEDIATE		X
DELAYED		X
FIRE		X
PRESSURE		X
REACTIVITY		X

4. THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS

(SECTION 313):	COMPONENT	CAS#	WEIGHT %
	N/A	N/A	N/A

CARCINOGENICITY:	NTP	IARC MONOGRAPHS	OSHA
	NO	NO	NO

The information provided in this material safety data sheet has been obtained and compiled from sources believed to be reliable. This information relates to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. Vance Brothers, Inc. does not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent.

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DATE

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