

Material Safety Data Sheet (MSDS) of Bitumen CMS

HAZARD RATING

1	HEALTH	1						
0 FIRE								
30 0	30 0 REACTIVITY							
I. PRODUCT INFORMATION								
TRADE NAME			,			C.A.S. NUMBER Mixture		
CMS ASPHALT EMULSION					IVIIX	Mixture		
SYNONYMS						PRODUCT CODE NUMBER 298-307		
Tack Oil, Fog S		rry Oil				250 501		
II. PHYSICAL DATA								
BOILING POINT @ 760 I	MM Hg		% VOLATILES BY VOLUME			SOLUBILITY IN H20 BY WEIGHT %		
212 F						Highly Miscible		
SPECIFIC GRAVIT Y 1.0 ± 0.2 @ 60 F			MELTING POINT Not Applicable			EVAPORATION RATE (BUTYL ACETATE = 1) Slower		
VAPOR DENSITY (AIR = 1)			VAPOR PRESSURE			APPEARANCE AND ODOR		
>1.0	>1.0		Not Determined			Brown to Black Material		
III. HAZARDOUS COMPONENTS								
C.A.S. NUMBER MATE		MATERIAL OR COMPONE	ATERIAL OR COMPONENT		HAZAI	AZARD DATA		
8052-42-4		[1] Asphalt	Asphalt			TLV/TWA - 5mg/m ₃ for asphalt fumes TLV/STEL - 10 mg/m ₃ for asphalt		
7722 49 5				33-40		fumes		
7732-18-5 [2] Water				Not applicable				
[3] Proprie <mark>tary En</mark>			mulsifier	0-4 No		ot applicable		
IV. HEALTH HAZARD INFORMATION								
EXPOS URE 5 mg/ms for all mist			TLV/STEL TLV/PEL					
LIMITS 5 mg/m3 for oil mist		5 mg/m₃ for oil mist Not I		Established		Not Applicable		
ROUTES OF EXPOSURE AND EFFECTS AS REQUIRED BY 29CFR1910.1200								
Vapors which are released during the curing process are not known to contain hazardous materials. Ho								
INHALATION	effects from raw materials include irritation to the eye, nose, and respiratory tracts of test animals. Health effects are not be expected if proper personal safety and hygiene is observed.							
	CHOOLS	and the see expected it proper personal earliery and tryglette is experted.						
	High vi	scosity oils, i.e. asp	wn to be less tox	ic wh	en ingested than	lower viscosity, higher		
INGESTION volatility oils. Product contains alkaline material (0.5%) and could cause								
		burns in the mouth, esophagus, and stomach.						
SKIN	Skin absorption could occur through normal skin contact and/or through wounds exposed to asphalt products. Product contains less than 0.5% alkaline material. Effects could include irritation and possible tissue							
ABSORPTION	damage or dermatitis. Health effects are not be expected if proper personal safety and hygiene is observed.							
	Product contains less than 0.5% alkaline material. Direct contact may cause irritation and/or itching. Pre-							
SKIN CONTACT	existing skin disordersmay be aggravated by exposure tothisproduct. Severe effects could include tissue burns, irritation and dermatitis.							
	Docum	Documentation indicates that contactlenses should not be wornwhen exposed to this product. Thisproduct						
EYE CONTACT	contains less than 0.5% alkaline material and can cause							
inflammation, irritation, and possible corneal burns.								
ACUTE OVEREXPOSURE Skin effects may include irritation and itching. Product contains less that 0.5% alkaline material and may cause tissue burns or dermatitis. Any pre-existing skin conditions may be aggravated by exposure to this product.								
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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 Vapors which arereleased during the curing process arenot knownto contain hazardous materials. However, if breathing is difficult, move person to fresh air and seek prompt medical attention. NHALATION DO NOTinduce vomiting. In general, emesis induction isunnecessary for high viscosity, low volatility oils such as asphalt and grease. Avoidall digestible oils, fats, and alcohol INGESTION which may increase intestinal absorption. Seek medical attention. Flush area with water to cool. Wash affected area with waterless hand cleaner, followed by water and a mild detergent. DO NOT use solvents! For relief from irritation, apply hand lotion. If irritation persists, seek medical SKIN CONTACT attention. Flush eyeswith water for 15 minutes while holding eyelids open. If subject is wearing contact lenses, immediately seek an ophthalmologist for treatment. EYE CONTACT VI. SPECIAL PROTECTION INFORMATION Care must be taken to assure that the TLV/TWA of 5mg/m3 for oil mist is not PERSONAL PROTECTIVE VENTILATION **EQUIPMENT** exceeded. Normal exterior application should not require the need for mechanical ventilation. Application must be made downwind from operator. DUST/ORGANIC VAPOR рвотестіом If needed, use an approved OSHA/NIOSH particulate and o<mark>rg</mark>anic vapor ca<mark>nister</mark> RESPIRATOR respirator, or a positive atmosphere supplied airrespirator as described in 29 CFR 1<mark>910.134</mark> **GOGGLES FULL-FACE SHIELD** EYE PROTECTION Goggles andfull-faceshield arerecommended whenhandling this material. SKIN PROTECTION Flannel-lined Neoprene or Nitrile gloves are recommended. **CHEMICAL RESISTANT GLOVES BOOTS** Rubber or leather footwear is recommended. Allclothing saturated with this OTHER PPE product should be discarded. VII. FIRE AND EXPLOSION DATA FLASH POINT **AUTOIGNITION TEMPERATURE** LOWER FLAMMABLE LIMIT Not Applicable Not Applicable Unknown EXTING UISHING ME DIA 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. Water sprayed on burning product may cause frothing, steam, and eruptions. VIII. REACTIVITY DATA CONDITIONS CONT RIBUTING TO INSTABILITY Since this is a water-based emulsion, settling will occur. The settling rate is dependent o<mark>n the dilu</mark>tion and storage temperature. NOTE: Care should be taken to prevent this material from freezing. This material is incompatible with acids. DO NOT heat above 212 F. All additives should be evaluated before use in the field.







HAZARDOUS DECOMPOSITION PRODUCTS

Irritating or toxic vapors may be released when this material is burned.

CONDITIONS CONT RIBUTING TO HAZARDOUS POLYMERIZATION

None known.

IX. SPILL AND LEAK PROCEDURES

SPILL CO NTROL PROCEDURE

If possible, stopsource of leak. Dike and contain to eliminate environmental contamination. For small spills, squeegee into thin layer and cover with dirt or aggregate. If material enters a waterway, notify police, local EPA and the National Response Center (1-800-424-8802)

NEUTRALIZING CHEMICALS

DO NOT use water. Thismaterial is highly miscible and water will increase the volume of the spill. If appropriate, pump material intoholding vessel and bind with sand or limedust.

WASTE DISPOSAL

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

X. SPECIAL PRECAUTIONS

ENVIRONMENTAL 1. This product is considered an oil under EPA-CWA Section 311. Spills intowater sources must be reported to 1-800-424-8802.

- 2. If this product becomes a waste material, refer to 40 CFR 261.21 (RCRA) fo<mark>r latest waste disposal regulations and waste</mark> stream number.
- 3. This product is listed in the EPA/TSCA inventory (40 CFR 700 to end).

ARELING

- 1. "KEEP FROM FREEZING" labels are recommended.
- 2. This material is not regulated by the Department of Transportation.

XII. ENVIRONMENTAL INFORMATION

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

4. THIS PRODUCT CONTAINS
THE FOLLOWING TOXIC CHEMICALS (SECTION 302 AND 304): COMPONENT TPQ(LBS)

RQ(BLS)

(SECTION 313): COMPONENT CAS# WEIGHT %

2. THIS PRODUCT CONTAINS THE FOLLOWING CERCLA HAZARDOUS SUBSTANCE(S) (SECTION302 AND 304): COMPONENT RQ(LBS) WEIGHT %

N/A N/A N/A CARCINOGENITY: NTP IARC MONOGRAPHS OSHA

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

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 andmay not be validfor such material used in combination with any othermaterial or in any process. Such information is to the bestof ourknowledge and belief, accurate and reliable as of the date compiled. However, noreprese <u>ntation</u>, warrant <u>y</u> or <u>quarant</u> ee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and com pleteness of such information for his own particular use. Vance Brothers, Inc. does not accept liability to ran <u>y</u> loss or <u>damage that may occur</u> from the use of this information nor do we offer warranty against patent.



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