

MATERIAL SAFETY DATA SHEET



MALCO

CANADA LOCATION

112 Ramsey Dr
Dunnville, Ontario N1A 1K8

ONLINE

malco-pc.com

U.S. LOCATIONS

4171 N Pleasant View Rd
Ponca City, Ok 74601

EMAIL

sales@malco-pc.com

HEADQUARTERS

1120 E 1st St
Tulsa, Ok 74120

TOLL-FREE PHONE

(800) 222-0925



MALCO MASTIC

HMIS HAZARD RATING		I. PRODUCT INFORMATION		
1	HEALTH	TRADE NAME 501 MALCO MASTIC	C.A.S. NUMBER Mixture	
1	FIRE	SYNONYMS Mastic, Waterproof Coating, Sealant	PRODUCT CODE NUMBER	
0	REACTIVITY			
II. PHYSICAL DATA				
BOILING POINT @ 760 MM HG 212°F	% VOLATILES BY VOLUME 40-50%	C.A.S. NUMBER Highly Miscible		
SPECIFIC GRAVITY 1.0 ± 0.2 @ 60°F	MELTING POINT Not Applicable	EVAPORATION RATE (BUTYL ACETATE = 1) Slower		
VAPOR DENSITY (AIR = 1) >1.0	VAPOR PRESSURE Not Determined	APPEARANCE AND ODOR Brown to Black Material		
III. HAZARDOUS COMPONENTS				
C.A.S. NUMBER	MATERIAL OR COMPONENT	%	HAZARD DATA	
8052-42-4	[1] Asphalt	40-50	TLV/TWA - 5mg/m ³ for asphalt fumes TLV/STEL - 10 mg/m ³ for asphalt fumes	
7732-18-5	[2] Water	40-50	Not applicable	
1302-78-9	[3] Surfactant	3-5	Not applicable	
71396-54-8	[4] Additive	<1	Not applicable	
9004-34-6	[5] Cellulose Fibers	0.5-5.0	Not applicable	
9003-55-8	[6] Polymer Additive	0-5	TLV/TWA – 50 ppm for residual styrene TLV/TWA – 2 ppm for residual butadiene	
34375-28-5	[7] Biocide	<1	None Established	
IV. HEALTH HAZARD INFORMATION				
EXPOSURE	TLV/TWA	TLV/STEL	TLV/PEL	ODOR THRESHOLD LIMIT
Limits	5 mg/m ³ for oil mist	5 mg/m ³ for oil	Not Established	Not applicable
ROUTES OF EXPOSURE AND EFFECTS AS REQUIRED BY 29CFR1910.1200				
INHALATION Vapors that are released during the curing process are not known to contain hazardous materials. However, effects from raw materials include irritation to the eye, nose, and respiratory tracts of test animals. Health effects are not to be expected if proper personal safety and hygiene is observed.				
INGESTION High viscosity oils, i.e. asphalt, have been shown to be less toxic when ingested than lower viscosity, higher volatility oils. Product contains alkaline material (0.5%) and could cause burns in the mouth, esophagus, and stomach.				
SKIN ABSORPTION 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 damage or dermatitis. Health effects are not to be expected if proper personal safety and hygiene is observed.				
SKIN CONTACT Product contains less than 0.5% alkaline material. Direct contact may cause irritation and/or itching. Pre-existing skin disorders may be aggravated by exposure to this product. Severe effects could include tissue burns, irritation and dermatitis.				

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IV. HEALTH HAZARD INFORMATION (CONTINUED)

ROUTES OF EXPOSURE AND EFFECTS AS REQUIRED BY 29CFR1910.1200

EYE CONTACT

Documentation indicates that contact lenses should not be worn when exposed to this product. This product 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 than 0.5% alkaline material and may cause tissue burns or dermatitis. Any pre-existing skin conditions may be aggravated by exposure to this product.

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

Vapors that are released during the curing process are not known to contain hazardous materials. However, if breathing is difficult, move person to fresh air 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

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 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. Application must be made downwind from operator.

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

Goggles and full-face shield are recommended when handling this material.

GOGGLES FULL-FACE SHIELD

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

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VII. FIRE AND EXPLOSION DATA

FLASH POINT	AUTOIGNITION TEMPERATURE	LOWER FLAMMABLE LIMIT
450+°F	Not Applicable	Unknown
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.		

VIII. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY Since this is a water-based emulsion, settling will occur. The settling rate is dependent on the dilution and storage temperature. NOTE: Care should be taken to prevent this material from freezing.
INCOMPATIBILITY 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 CONTRIBUTING TO HAZARDOUS POLYMERIZATION None known.

IX. SPILL AND LEAK PROCEDURES

SPILL CONTROL PROCEDURE If possible, stop source 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. This material is highly miscible and water will increase the volume of the spill. If appropriate, pump material into holding vessel and bind with sand or lime dust.
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 an 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. "KEEP FROM FREEZING" labels are recommended. 2. This material is not regulated by the Department of Transportation.

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XI. REFERENCES

1. BITUMEN SAFETY CODE (ISBN-085501-319-2)
2. CAUSTIC SODA HANDBOOK, VULCAN CHEMICAL
3. CLINICAL TOXICOLOGY OF COMMERCIAL PRODUCTS, 5TH EDITION
4. DOCUMENTATION OF THRESHOLD LIMIT VALUES, 4TH EDITION
5. ENCYCLOPEDIA OF SURFACTANTS, VOLUME III
6. EPA/CWA SECTION 311
7. HYGIENE AND SANITATION, VOLUME 33
8. NFPA 325M, 704
9. POISONING, TOXICOLOGY, SYMPTOMS, TREATMENTS
10. 29 CFR, 40 AS NOTED WITHIN
11. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

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: N/A
TPQ(LBS): N/A
RQ(BLS): N/A

2. THIS PRODUCT CONTAINS THE FOLLOWING CERCLA HAZARDOUS SUBSTANCE(S) (SECTION 302 AND 304):

COMPONENT: N/A
RQ(LBS): N/A
WEIGHT %: 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: N/A
CAS#: N/A
WEIGHT %: N/A

CARCINOGENITY

NTP: NO
IARC MONOGRAPHS: NO
OSHA: NO