

# MATERIAL SAFETY DATA SHEET

REV. DATE 1/04/04

**QUICK IDENTIFIER:** WATER-BASE PRE CAST CONCRETE COATING  
**MANUFACTURER'S NAME:** PROFESSIONAL COATING TECHNOLOGIES, INC. (P.C.T.)  
**ADDRESS:** 1001 MT. LEBANON RD.  
CEDAR HILL, TX 75104  
**EMERGENCY 24 HR. TELEPHONE NUMBER:** (972) 291-7474  
**OTHER INFORMATION CALLS:** (972) 291-7474

## SECTION 1 - IDENTIFY

**TRADE NAME AND SYNONYMS:** MC-4  
**C.A.S. NUMBER:** NONE, MIXTURE  
**CHEMICAL NAME:** EMULSIFIED ASPHALT  
**CHEMICAL FAMILY:** PETROLEUM HYDROCARBON  
**FORMULA:** VARIABLE MIXTURE

## SECTION 2 - INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENTS (CHEMICAL & COMMON NAMES)	%	THRESHOLD LIMIT VALUE (UNITS)
NONE KNOWN		

### OTHER INGREDIENTS

ASPHALT, PETROLEUM 008052-42-4	50-62	5.00 mg/m <sup>3</sup>
PETROLEUM DISTILLATE	LESS THAN	6%

## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

**BOILING POINT:** 212 DEG. F.      **SPECIFIC GRAVITY (H20-1.00):** 1.02  
**VAPOR PRESSURE (mmHg):** N/D      **VAPOR DENSITY (AIR @ 1):** > 1  
**PERCENT SOLVENT BY VOLUME:** <6%      **EVAP. RATE (H20 = 1.00):** ND  
**APPEARANCE AND ODOR:** LOW VISCOSITY, SMOOTH BROWN LIQUID, SLIGHT PETROLEUM ODOR

## SECTION 4 - FIRE AND EXPLOSION

**FLASH POINT:** N/A IN EMULSION STATE      **AUTO IGNITION TEMP:** N/A  
**FLAMMABLE LIMITS IN AIR % BY VOLUME:**      **LOWER:** N/A      **UPPER:** N/A  
**EXTINGUISHER MEDIA:** NON-FLAMMABLE IN EMULSION STATE  
**\*NOTE\* IN ASPHALT STATE:** SMALL FIRES USE DRY CHEMICAL, CO<sub>2</sub>, HALON, WATER SPRAY OR STANDARD FOAM. LARGE FIRES USE WATER SPRAY, FOG OR STANDARD FOAM. (1987 EMERGENCY RESPONSE GUIDEBOOK, D.O.T. P5800.4 GUIDE NO. 27)  
**SPECIAL FIRE FIGHTING PROCEDURES:** NON-FLAMMABLE IN EMULSION STATE.  
**\*NOTE\* IN ASPHALT STATE:** MOVE VESSEL FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. COOL CONTAINERS THAT ARE EXPOSED TO FLAMES WITH WATER FROM THE SIDE UNTIL WELL AFTER THE FIRE IS OUT. STAY AWAY FROM ENDS OF TANK. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES; IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANK DUE TO FIRE.(1987 EMERGENCY RESPONSE GUIDEBOOK, D.O.T. P5800.4 GUIDE NO. 27)

## SECTION 5 - PHYSICAL HAZARDS

**MATERIAL IS:** STABLE  
**CONDITIONS TO AVOID:** NONE  
**INCOMPATIBILITY (MATERIALS TO AVOID):** NONE  
**HAZARDOUS POLYMERIZATION WILL:** NOT OCCUR

## SECTION 6 - HEALTH HAZARDS

**CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN.**  
ASPHALT EMULSIONS HAVE NOT BEEN INVESTIGATED AS POSSIBLE CARCINOGENS. PETROLEUM ASPHALT WOULD BE AS  
FOLLOWS:      **NAT. TOXICOLOGY PROGRAM**      NO  
                 **OSHA**      YES  
**I.A.R.C.**      \*UNDETERMINED

**\*EXPLANATION:** IARC MONOGRAPHS - JAN. 1985 - THE STUDY INDICATES THERE IS SUFFICIENT EVIDENCE FOR CARCINOGENICITY IN ANIMALS FROM EXPOSURE TO EXTRACTS OF STEAM-REFINED BITUMENS, AIR-REFINED BITUMENS AND

MIXTURES OF STEAM-REFINED AND AIR-DEFINED BITUMENS. DUE TO INADEQUATE EVIDENCE IN HUMANS, BUT SUFFICIENT EVIDENCE IN ANIMALS, BITUMEN IS CONSIDERED BY OSHA AS IF IT PRESENTS A CARCINOGENIC RISK TO HUMANS. THERE IS INADEQUATE EVIDENCE THAT BITUMENS ALONE ARE CARCINOGENIC TO HUMANS.

**OSHA PERMISSIBLE EXPOSURE LIMIT:** N/A FOR EMULSION (ASPHALT FUMES: 5mg/m3 MAX CEILING)

**ACGIH THRESHOLD LIMIT VALUE:** N/A FOR EMULSION (ASPHALT FUMES: 5mg/m3 TWA)

**OTHER EXPOSURE LIMIT USED:** NONE

**ROUTES OF EXPOSURE:** PRIMARY - SKIN CONTACT

SECONDARY - INGESTION OR INHALATION

**SIGNS AND SYMPTOMS OF EXPOSURE:** SKIN - CONTACT WITH HOT PRODUCT MAY CAUSE THERMAL BURNS. PROLONGED OR REPEATED CONTACT WITH COOL PRODUCT MAY CAUSE IRRITATION. ASPHALT EMULSIONS HAVE NOT BEEN INVESTIGATED FOR POSSIBLE CARCINOGENICITY.

INGESTION - EMULSIONS MAY CAUSE NAUSEA AND IRRITATION OF GASTROINTESTINAL TRACT.

INHALATION - EXCESSIVE EXPOSURE TO FUMES, VAPORS OR MISTS MAY CAUSE SOME RESPIRATORY DISCOMFORT OF THE MUCOUS MEMBRANES. ASPHALT, WHEN HEATED, RELEASES VARIOUS CONCENTRATIONS OF HYDROGEN SULFIDE (H<sub>2</sub>S) GAS. H<sub>2</sub>S IS AN EXTREMELY TOXIC AND FLAMMABLE GAS THAT AT LOW CONCENTRATIONS IS IRRITATING TO THE RESPIRATORY TRACT AND HAS A ROTTEN EGG ODOR. ODOR CAN NOT BE RELIED ON AS A MEANS OF DETECTION BECAUSE AT HIGHER CONCENTRATIONS OF 500 - 1000 ppm MAY LEAD TO UNCONSCIOUS, RESPIRATORY PARALYSIS AND DEATH.

**EMERGENCY AND FIRST AID PROCEDURES:** INHALATION - IF OVEREXPOSURE OCCURS, REMOVE INDIVIDUAL TO FRESH AIR. IF DISCOMFORT CONTINUES, SEEK MEDICAL ATTENTION.

EYES - FLUSH EYES IMMEDIATELY WITH COPIOUS AMOUNTS OF WATER AT LEAST 15 MINUTES OCCASIONALLY LIFTING THE UPPER AND LOWER EYE LIDS. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN - HOT PRODUCT SHOULD BE COOLED WITH WATER. CLEAN SKIN WATERLESS TYPE HAND CLEANER FOLLOWED BY SOAP AND WATER. IF IRRITATION OR BURN DEVELOPS, SEEK MEDICAL ATTENTION. COOL PRODUCT MAY BE CLEANED WITH WATERLESS TYPE HAND CLEANER.

INGESTION: IF MATERIAL IS SWALLOWED, DO NOT INDUCE VOMITING. TREAT SYMPTOMATICALLY AND GET MEDICAL ATTENTION.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** UNKNOWN

#### SECTION 7 - SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** NORMALLY NOT NEEDED, BUT IF CONDITIONS WARRANT USE ORGANIC VAPOR RESPIRATORS.

**VENTILATION LOCAL EXHAUST:** AS NEEDED TO REMOVE MISTS OR VAPORS.

**PROTECTIVE GLOVES:** IMPERVIOUS COATING

**EYE PROTECTION:** CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** APPROPRIATE CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT WITH SKIN.

#### SECTION 8 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** AVOID HEATED PRODUCT FUMES.

**OTHER PRECAUTIONS:** OBSERVE GOOD PERSONAL HYGIENE. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE. DO NOT WEAR LEATHER SHOES OR BOOTS THAT HAVE BECOME SATURATED WITH PRODUCT.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** CREATE DIKES OR PONDS AS SOON AS POSSIBLE. USE EARTH, SAWDUST OR SAND TO MAKE DIKES OR TO USE AS ABSORBENT. UPON ABSORPTION, MATERIAL WILL REVERT TO ASPHALT STATE AND CAN BE REMOVED WITH ABSORPTION MATERIAL.

**WASTE DISPOSAL METHODS:** EMULSION CAN BE MIXED WITH ANY STABILIZING MATTER (e.g., ROCK, GRAVEL OR SAND) IN ORDER TO CHANGE ITS STATE FROM A LIQUID INTO A SOLID. THIS MATERIAL CAN THEN BE DISPOSED OF AT AN APPROVED LANDFILL.

**EXPLANATION OF ABBREVIATIONS:** N/D - NOT DETERMINED

N/A - NOT APPLICABLE

TLV - THRESHOLD LIMIT VALUE

TWA - TIME WEIGHTED AVERAGE

DISCLAIMER OF LIABILITY

BY P.C.T.

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