

CRF

Material Safety Data Sheet



Manufacturer's Name: Martin Asphalt Company	Date: SEPTEMBER, 2009
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NFPA HAZARD IDENTIFICATION	DEGREE OF HAZARD	HMIS HAZARD RATINGS
	HEALTH: 2	0= MINIMAL
	FIRE: 0	1= SLIGHT
	REACTIVITY: 0	2= MODERATE 3= SERIOUS 4= SEVERE

SECTION 1 - COMPONENT DATA	
PRODUCT NAME:	CRF
COMMON NAME	BLENDED PETROLEUM HYDROCARBON
CHEMICAL NAME	BLENDED PETROLEUM HYDROCARBON IN WATER EMULSION

SECTION 2 - PHYSICAL DATA				
C.A.S. NUMBER:	MIXTURE (SEE DATA BELOW)			
BOILING POINT (F):	>212°F			
SPECIFIC GRAVITY (H2O=1):	1			
MELTING POINT:	N.A. °F			
VAPOR PRESSURE:	SAME AS WATER			
PERCENT VOLATILE:	N/A			
VAPOR DENSITY (AIR=1):	SAME AS WATER			
EVAPORATIVE RATE (WATER=1):	1			
SOLUBILITY IN WATER:	READILY DISPERSIBLE			
APPEARANCE AND ODOR:	BROWN LIQUID WITH PETROLEUM ODOR			
COMPONENT NAME/ CAS NO.	% MIN	% MAX	EXPOSURE LIMITS	UNITS
PETROLEUM ASPHALT CAS NO. 8052-42-4		46	OSHA PEL (OIL MIST) 8HR/TWA (OIL MIST)	5 mg/m3
HEAVY NAPHTHENIC DISTILLATE SOLVENT EXTRACT CAS 64742-11-6		31	OSHA PEL (OIL MIST) 8HR/TWA (OIL MIST)	5 mg/m3
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC CAS NO. 64742-52-5		29	OSHA PEL (OIL MIST) 8HR/TWA (OIL MIST)	5 mg/m3
EMULSIFIER/ LISTED IN TSCA	0	10	ORAL LD50 (RATS)	<19g/kg

SECTION 3 - FIRE & EXPLOSION DATA	
FLASH POINT (°F) & METHOD:	NOT APPLICABLE
FLAMMABILITY LIMITS:	LOWER: N.A. UPPER: N.A.
AUTO IGNITION TEMPERATURE (F):	UNKNOWN
EXTINGUISHING MEDIA	USE DRY CHEMICAL, WATER FOG, FOAM OR CARBON DIOXIDE.
SPECIAL FIRE FIGHTING PROCEDURES	DO NOT ENTER CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS. SEE HAZARDOUS DECOMPOSITION PRODUCTS.

*NA=NOT APPLICABLE **ND=NOT DETERMINED



HAZARDOUS DECOMPOSITION PRODUCTS:	NORMAL COMBUSTION FORMS CARBON DIOXIDE AND WATER VAPOR, AND MAY PRODUCE OXIDES OF SULFUR AND NITROGEN. INCOMPLETE COMBUSTION CAN PRODUCE CARBON MONOXIDE.
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SECTION 4 - REACTIVITY DATA	
STABILITY: STABLE	CONDITIONS TO AVOID: NONE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR	
INCOMPATIBILITY MATERIALS TO AVOID:	MAY REACT WITH STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS:	NORMAL COMBUSTION FORMS CARBON DIOXIDE AND WATER VAPOR, AND MAY PRODUCE OXIDES OF SULFUR AND NITROGEN. INCOMPLETE COMBUSTION CAN PRODUCE CARBON MONOXIDE.

SECTION 5 - HEALTH HAZARD DATA	
SKIN CONTACT:	THE COOL MATERIAL IS NOT EXPECTED TO CAUSE SKIN IRRITATION. THERMAL BURNS MAY RESULT FROM CONTACT WITH HOT MATERIAL.
EYE CONTACT:	THE COOL MATERIAL IS NOT EXPECTED TO CAUSE EYE IRRITATION. THERMAL BURNS MAY RESULT FROM CONTACT WITH HOT MATERIAL.
INHALATION:	FUMES FROM HOT PRODUCT MAY BE UNPLEASANT AND MAY PRODUCE NAUSEA. REMOVE THE PERSON TO FRESH AIR IF RESPIRATORY DISCOMFORT OCCURS.
INGESTION	THIS PRODUCT IS NOT EXPECTED TO BE ACUTELY TOXIC BY INGESTION. IF SWALLOWED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN.
HEALTH DATA	<p>EYES: NO DATA AVAILABLE.</p> <p>SKIN: PROLONGED SKIN CONTACT MAY CAUSE IRRITATION.</p> <p>INGESTION: THIS PRODUCT IS NOT EXPECTED TO BE ACUTELY TOXIC BY INGESTION. IF SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN.</p> <p>INHALATION: REMOVE THE PERSON TO FRESH AIR IF RESPIRATORY DISCOMFORT OCCURS.</p> <p>CARCINOGENICITY: ACGIH, NTP, OSHA AND IARC CARCINOGEN LISTS WERE CHECKED FOR THOSE COMPONENTS WITH CAS REGISTRY NUMBER(S) 8052-42-4, 64742-11-6 AND 64742-52-5.</p> <p>ACGIH: ASPHALT FUMES (COAL TAR FREE) ARE DESIGNATED AS A4 – NOT CLASSIFIABLE AS A HUMAN CARCINOGEN.</p> <p>IARC: BITUMENS – INCLUDING UNDILUTED AIR-REFINED BITUMENS ARE DESCRIBED AS “ NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS” (GROUP 3) EXTRACTS OF AIR-REFINED BITUMENS ARE DESCRIBED AS “ POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) (MONOGRAPH, VOL. 35, SUPPLEMENT 7, P. 133). THIS PRODUCT CONTAINS PETROLEUM OILS SIMILAR TO ONES CATEGORIZED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER AS CAUSING SKIN CANCER IN LABORATORY ANIMALS WHEN THE OIL WAS REPEATEDLY APPLIED FOR MOST OF THE LIFETIME OF THE ANIMAL WITH NO EFFORT MADE TO REMOVE THE OIL BETWEEN APPLICATIONS. HANDLING INSTRUCTIONS AND PRECAUTIONS OUTLINED IN THIS MSDS SHOULD BE FOLLOWED WHEN HANDLING THIS PRODUCT.</p> <p>NTP: THIS PRODUCT CONTAINS NO INGREDIENTS CLASSIFIED AS CARCINOGENS.</p> <p>OSHA: THIS PRODUCT CONTAINS NO INGREDIENTS CLASSIFIED AS CARCINOGENS.</p> <p>CA PROP 65: THIS PRODUCT CONTAINS CHEMICALS IN TRACE QUANTITIES THAT ARE ON THE CALIFORNIA PROPOSITION 65 LIST.</p>

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES	
EYE CONTACT	IMMEDIATELY FLUSH EYES WITH WATER FOR A MINIMUM OF 15 MINUTES. SEEK MEDICAL ATTENTION IMMEDIATELY.
SKIN CONTACT	WASH CONTACT AREAS WITH SOAP AND WATER. REMOVE AND CLEAN OIL SOAKED CLOTHING DAILY AND WASH AFFECTED AREA.

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INHALATION	NOT EXPECTED TO BE A PROBLEM. HOWEVER, IF RESPIRATORY IRRITATION, DIZZINESS, NAUSEA OR UNCONSCIOUSNESS OCCURS DUE TO EXCESSIVE VAPOR OR MIST EXPOSURE, MOVE TO FRESH AIR, ADMINISTER CPR IF NECESSARY AND SEEK MEDICAL ATTENTION. IF OPERATING CONDITIONS CREATE AIRBORNE CONCENTRATIONS THAT EXCEED THE EXPOSURE STANDARD, THE USE OF AN APPROVED NIOSH/OSHA RESPIRATOR FOR ORGANIC VAPORS OR AIR-SUPPLIED BREATHING EQUIPMENT IS RECOMMENDED.
INGESTION	CONTACT A PHYSICIAN IMMEDIATELY.

SECTION 7 - PERSONAL HEALTH PROTECTION INFORMATION	
EYE PROTECTION	WEAR APPROPRIATE SAFETY GLASSES, GOGGLES OR FACE SHIELD.
SKIN PROTECTION	LONG SLEEVE COTTON SHIRT AND COTTON PANTS ARE RECOMMENDED. WEAR APPROPRIATE GLOVES.
RESPIRATORY PROTECTION	IF OPERATING CONDITIONS CREATE AIRBORNE CONCENTRATIONS THAT EXCEED THE EXPOSURE STANDARD FOR MINERAL OIL MISTS, THE USE OF AN APPROVED NIOSH/OSHA RESPIRATOR FOR ORGANIC VAPORS OR AIR SUPPLIED BREATHING EQUIPMENT IS RECOMMENDED.
VENTILATION	IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS.
OTHER	CONSUMPTION OF FOOD AND BEVERAGES SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

SECTION 8 – SPILL, LEAK & DISPOSAL PROCEDURES	
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	CONSULT HEALTH HAZARD DATA IN SECTION 5, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION 7, FIRE & EXPLOSION DATA IN SECTION 3, AND REACTIVITY DATA IN SECTION 4. NOTIFY APPROPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. REMOVE ALL SOURCES OF IGNITION. ABSORB WITH APPROPRIATE INERT MATERIAL SUCH AS SAND, CLAY, ETC. LARGE SPILLS MAY BE PICKED UP USING VACUUM PUMPS, SHOVELS, BUCKETS OR OTHER MEANS AND PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS. IF SPILLED INTO A NAVIGABLE WATERWAY IN THE UNITED STATES OR THAT MAY ENTER THE UNITED STATES, AND A FILM, SHEEN OR DISCOLORATION OF ANY WATER SURFACE IS OBSERVED, THE SPILL MUST BE REPORTED TO THE UNITED STATES NATIONAL RESPONSE CENTER BY CALLING (800) 424-8802.
WASTE DISPOSAL METHOD	ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LAND FILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

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SECTION 9 - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION	
HANDLING AND STORAGE REQUIREMENTS	DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS. THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOT REGULATIONS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106 FLAMMABLE AND COMBUSTIBLE LIQUIDS. AVOID FIRE, SPARKS OR OPEN FLAME. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO ENSURE THAT THIS PRODUCT DOES NOT CONTACT THE EYES OR SKIN. VENTILATION: USE ADEQUATE VENTILATION TO KEEP THE AIRBORNE CONCENTRATIONS OF THIS MATERIAL BELOW THE ESTABLISHED EXPOSURE LIMITS.
TRANSPORT INFORMATION	NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION BY THE U.S. DEPARTMENT OF TRANSPORTATION.
ADDITIONAL INFORMATION	THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY SARA TITLE III, SECTION 313 REPORTABLE CHEMICALS, AT OR GREATER THAN 1.0% (0.1% FOR CARCINOGENS) A COMPONENT OF THIS PRODUCT IS ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY.

SECTION 10: REGULATORY INFORMATION	
TSCA (TOXIC SUBSTANCE CONTROL ACT) REGISTRY:	LISTED
CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT):	PETROLEUM EMULSIONS ARE NOT A HAZARDOUS SUBSTANCE UNDER CERCLA.
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):	
SECTION 302/304:	THIS PRODUCT IS NOT LISTED AS AN EXTREMELY HAZARDOUS SUBSTANCE IN 40 CFR PART 355 AND IS NOT KNOWN TO CONTAIN AN EXTREMELY HAZARDOUS SUBSTANCE IN A CONCENTRATION GREATER THAN ONE PERCENT BY WEIGHT.
SECTION 311/312:	ACUTE HEALTH HAZARD: NO CHRONIC HEALTH HAZARD: YES FIRE HAZARD: NO PRESSURE RELEASE HAZARD: NO REACTIVITY HAZARD: NO
SECTION 313:	THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY COMPONENTS IN CONCENTRATIONS ABOVE DE MINIMUS LEVELS THAT ARE LISTED AS TOXIC IN 40 CFR PART 372 PURSUANT TO THE REQUIREMENTS OF SECTION 313 OF SARA.
WHMIS:	D2A
OSHA:	29 CFR 1910.1200 (HAZARD COMMUNICATION) REQUIRED

The information contained herein is based on the data available to us and is believed to be correct. However, Martin Asphalt Company makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. This information and product is furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof.

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