

AC-20 MATERIAL SAFETY DATA SHEET

Manufacturer's Name:	Martin Asphalt Company	Date: January 17, 2014
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NFPA HAZARD	DEGREE OF HAZARD	HAZARD RATINGS	
IDENTIFICATION	HEALTH: 1	0= LEAST	
	FIRE: 1	1= SLIGHT	
	REACTIVITY: 0	2= MODERATE	
		3= HIGH	
		4= EXTREME	

SECTION 1 - COMPONENT DATA		
PRODUCT NAME	AC-20	
CHEMICAL NAME	PETROLEUM ASPHALT (BITUMEN)	
CHEMICAL FAMILY	PETROLEUM HYDROCARBON	

SECTION 2 - PHYSICAL DATA				
BOILING POINT, ºF:		>900		
SPECIFIC GRAVITY:		0.9-1.10		
VAPOR PRESSURE (mm Hg):		*ND		
MELTING POINT, °F:		110-150		
SOLUBILITY IN WATER:		NEGLIGIBLE		
VAPOR DENSITY (AIR=1):		*ND		
EVAPORATION RATE (N-BUTYL) ACETATE =1):		*ND		
PH:		NEUTRAL		
APPEARANCE AND ODOR:		BLACK VISCOUS SEMISOLID. ASPHALT ODOR.		
HAZARDOUS INGREDIENTS				
<u>COMPONENT</u>	<u>CAS NUMBER</u>		<u>PERCENT</u>	
ASPHALT		8052-42-4	94-100	

SECTION 3 - FIRE AND EXPLOSION HAZARDS		
FLASH POINT AND °F, COC:	ID METHOD, >550	
FLAMMABLE LIMIT VOLUME IN AIR	AMMABLE LIMITS: % LOWER: *ND UPPER: *ND LUME IN AIR	
EXTINGUISHING M	DRY CHEMICAL OR FOAM PREFERRED. WATER FOG MAY BE USED ON FLAT SURFACES SUCH AS ROADS.	
SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS	CAUSE VIC BURN UNLI GEAR (HEL INCLUDING	SE WATER ON ASPHALT FIRE IN TANK OR OTHER CONTAINERS SINCE IT MAY DEENT ERUPTION AND SPREADING OF BURNING ASPHALT. MATERIAL WILL NOT ESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER MET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), GA POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING S. COOL FIRE EXPOSED CONTAINERS WITH WATER.
UNUSUAL FIRE AND EXPLOSION		EAT ABOVE FLASH POINT. HOT ASPHALT MAY IGNITE FLAMMABLE MIXTURES ON SULFUR OXIDES AND HYDROGEN SULFIDE, BOTH OF WHICH ARE TOXIC, MAY BE

^{*}NA=NOT APPLICABLE **ND=NOT DETERMINED



	HAZARD	RELEASED UPON COMBUSTION. H ₂ S VAPORS ARE HEAVIER THAN AIR, MAY ACCUMULATE IN
ı		LOW AREAS AND TRAVEL ALONG THE GROUND TO A REMOTE IGNITION SOURCE; IF IGNITED
ı		WILL FLASH BACK TO ORIGINAL CONTAINER.

SECTION 4 – REACTIVITY DATA		
STABILITY:	STABLE	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR	
CONDITIONS AND MATERIALS TO AVOID	DO NOT ALLOW MOLTEN PRODUCT TO CONTACT WATER OR LIQUIDS AS THIS CAN CAUSE VIOLENT ERUPTIONS, SPLATTER HOT MATERIAL OR IGNITE FLAMMABLE MATERIALS.	
HAZARDOUS DECOMPOSITION PRODUCTS	THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE, HYDROGEN SULFIDE AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.	

	SECTION 5 - HEALTH HAZARD DATA		
	THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATIONS STANDARD (29 CFR 1910.1200)		
EYE CONTACT	BASED ON ESSENTIALLY SIMILAR PRODUCT TESTING, PRODUCT IS PRESUMED TO BE MINIMALLY IRRITATING TO THE EYES. CONTACT WITH PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS.		
SKIN CONTACT	BASED ON ESSENTIALLY SIMILAR PRODUCT TESTING, PRODUCT IS PRESUMED TO BE MINIMALLY IRRITATING TO THE SKIN. CONTACT WITH PRODUCT AT ELEVATED TEMPERATURES CAN RESULT IN THERMAL BURNS.		
INHALATION	VAPORS MAY CAUSE IRRITATION TO NOSE, THROAT, AND RESPIRATORY TRACT, HIGH VAPOR CONCENTRATIONS MAY RESULT IN CNS DEPRESSION.		

WARNING: HYDROGEN SULFIDE (H2S) AND OTHER HAZARDOUS VAPORS MAY EVOLVE AND COLLECT IN THE HEADSPACE OF STORAGE TANKS OR OTHER ENCLOSED VESSELS. HYDROGEN SULFIDE IS AN EXTREMELY FLAMMABLE, TOXIC GAS. IN THE ABSENCE OF H2S, INHALATION OF VAPORS, MISTS OR FUMES (GENERATED AT HIGH TEMPERATURES) MAY CAUSE IRRITATION TO THE NOSE, THROAT, AND RESPIRATORY TRACT.

BREATHING ASPHALT AEROSOL OR ASPHALT SMOKE FOR PROTRACTED PERIODS OF TIME HAS PRODUCED DAMAGE TO THE LUNGS OF MICE. AMONG THE CHANGES OBSERVED WERE BRONCHITIS, PNEUMONITIS AND ABSCESS FORMATION.

ASPHALT FUME CONDENSATES HAVE BEEN SHOWN TO PRODUCE A TUMOROGENIC RESPONSE WHEN REPEATEDLY APPLIED TO THE SKIN OF EXPERIMENTAL ANIMALS. THE RELEVANCE OF THIS DATA TO HUMANS IS NOT KNOWN AT THIS TIME.

H2S IS IRRITATING TO THE EYES AND RESPIRATORY TRACT AT LOW CONCENTRATIONS. 0.02 PPM-ODOR THRESHOLD. 10 PPM-EYE IRRITATION. 100 PPM-HEADACHE, DIZZINESS, VOMITING, COUGHING. 200-300 PPM-EYE INFLAMMATION, RESPIRATORY TRACT IRRITATION AFTER 1 HOUR EXPOSURE. 300-700 PPM-LOSS OF CONSCIOUSNESS OR POSSIBLE DEATH IN 30 MIN. TO AN HOUR. 700-900 PPM-RAPID LOSS OF CONSCIOUSNESS; DEATH CAN RESULT. >1000 PPM-UNCONSCIOUSNESS IN SECONDS; DEATH IN MINUTES UNLESS VICTIM IS REMOVED FROM CONTAMINATED AREA AND BREATHING IS RESTORED. DO NOT DEPEND ON SENSE OF SMELL FOR WARNING. H2S CAUSES RAPID OLFACTORY FATIGUE (DEADENS SENSE OF SMELL). THERE IS NO EVIDENCE THAT H2S WILL ACCUMULATE IN THE BODY TISSUE AFTER REPEATED EXPOSURE.

SIGNS AND SYMPTOMS OF OVEREXPOSURE	IRRITATION AS NOTED ABOVE.
AGGRAVATED MEDICAL CONDITIONS	PREEXISTING EYE, SKIN, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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HAZARDOUS INGREDIENT: ASPHALT	CARCINOGENICITY				
NTP LISTED	NO				
IARC LISTED	YES				
OSHA REGULATED	NO				
OCCUPATIONAL EXPOSURE L	OCCUPATIONAL EXPOSURE LIMITS:				
	OS	HA	ACGIH	1	
COMPONENT	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	OTHER
ASPHALT	*OIL MIST, MINERAL		5 MG/M		

	SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES
EYE CONTACT	FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
SKIN CONTACT	IF HOT ASPHALT STRIKES THE SKIN, DRENCH OR IMMERSE THE AREA IN WATER TO ASSIST COOLING. IF AVAILABLE, APPLY ICED WATER OR ICE PACKS TO THE BURNED AREA. (DO NOT USE ICED WATER OR COLD PACKS IF THE BURNED AREA COVERS MORE THAN 10% OF THE BODY, AS THIS MAY CONTRIBUTE TO SHOCK.) DO NOT TRY TO REMOVE ASPHALT FROM A BURN AFTER IT HAS COOLED. SEEK MEDICAL ATTENTION. IF COOL ASPHALT CONTACTS THE SKIN, WASH THE AREA WITH HOT SOAPY WATER. USE OF A WATERLESS HAND CLEANER WILL HELP TO REMOVE THE ASPHALT
INHALATION	REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. BEWARE THAT H ₂ S MAY BE PRESENT IF VICTIM IS UNCONSCIOUS. USE BREATHING PROTECTION BEFORE REMOVING VICTIM TO FRESH AIR. GET MEDICAL ATTENTION.
INGESTION	DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ADVICE.

	SECTION 7 – PERSONAL HEALTH PROTECTION INFORMATION
PROTECTIVE CLOTHING	AVOID CONTACT WITH EYES. WEAR SAFETY GLASSES OR GOGGLES, GLOVES, APRON AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO PREVENT CONTACT. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.
RESPIRATORY PROTECTION	AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS USE A NIOSH/MSHA APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.
ADDITIONAL PROTECTIVE MEASURES	USE IN A WELL VENTILATED AREA TO CONTROL VAPOR CONCENTRATION. AIR-DRY CONTAMINATED CLOTHING IN A WELL VENTILATED AREA, THEN LAUNDER BEFORE REUSING.



SECTION 8 – SPILL, LEAK & DISPOSAL PROCEDURES		
STEPS TO BE TAKEN IF	CONSULT HEALTH HAZARD DATA IN SECTION 5, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION 7, FIRE & EXPLOSION DATA IN SECTION 3, AND REACTIVITY DATA	
MATERIAL IS RELEASED OR	IN SECTION 4. NOTIFY APPROPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. REMOVE ALL	
SPILLED	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.	
VALACTE		
WASTE DISPOSAL	ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REULATED WASTE. REFER TO STATE AND	
METHOD	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 LANDFILLED OR INCINERATED AT AN APPROVED	
	FACILTIY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.	

SECTION 9 - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION			
WHEN ASPHALTIC PRODUCTS ARE HEATED, THEY OFTEN GIVE OFF SMALL AMOUNTS OF HYDROGEN SULFIDE.			
HYDROGEN SULFIDE IS AN EXTREMELY FLAMMABLE, HIGHLY TOXIC GAS. BREATHING HYDROGEN SULFIDE MUST			
BE AVOIDED. MINIMIZE BREATHING OF VAPORS, FUMES, OR MIST; WHEN POSSIBLE, USE VENTILATION OR			
WORK UPWIND OF SOURCE OF VAPORS, FUMES AND MIST. LAUNDER CONTAMINATED CLOTHING BEFORE			
USING. DISCARD LEATHER GOODS WHEN THEY CANNOT BE DECONTAMINATED. OBSERVE GOOD PERSONAL			
HYGIENE. WASH THOROUGHLY AFTER WORKING WITH ASPHALT AND BEFORE EATING OR SMOKING.			
D.O.T. SHIPPING CLASSIFICATION:	UN3257 ELEVATED TEMPERATURE LIQUID, N.O.S., 9 PG III		
THE COMPONENTS OF THE PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.			

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.