

# Evergrip Flexible GTR Bituminous Marker Adhesive

## MATERIAL SAFETY DATA SHEET



Manufacturer's Name: Martin Asphalt Company	Date: December 16, 2007
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NFPA HAZARD IDENTIFICATION	DEGREE OF HAZARD	HAZARD RATINGS
	HEALTH: 1 FIRE: 1 REACTIVITY: 0	0= LEAST 1= SLIGHT 2= MODERATE 3= HIGH 4= EXTREME

SECTION 1 - COMPONENT DATA	
PRODUCT NAME	Evergrip Flexible GTR Bituminous Marker Adhesive
CHEMICAL FAMILY	PETROLEUM HYDROCARBON MIXTURE

SECTION 2 - PHYSICAL DATA	
BOILING POINT, °F:	WIDE RANGE
SPECIFIC GRAVITY:	1.20 – 1.35
VAPOR PRESSURE (MM HG):	*ND
MELTING POINT, °F:	220+
SOLUBILITY IN WATER:	NEGLIGIBLE
VAPOR DENSITY (AIR=1):	*ND
EVAPORATION RATE (N-BUTYL) ACETATE =1):	*ND
PH:	NEUTRAL
APPEARANCE AND ODOR:	BLACK SOLID. ASPHALT ODOR.

INGREDIENTS		
COMPONENT	CAS NUMBER	PERCENT
ASPHALT	8052-42-4	55-70
REPROCESSED GROUND TIRE RUBBER	NR:9003-31-00 SBR:9003-55-8	2-6
CARBON BLACK	1333-86-4	1.0-3.0
PROCESS OIL	64742-04-7	0.5-2.0
ZINC OXIDE	1314-13-2	0.05-0.30
SULFUR	7704-34-9	0.05-0.30
STEARIC ACID	57-11-4	0.05-0.30

SECTION 3 - FIRE AND EXPLOSION HAZARDS	
FLASH POINT AND METHOD:	550°F (COC)
FLAMMABLE LIMITS: % VOLUME IN AIR	LOWER: *ND UPPER: *ND
EXTINGUISHING MEDIA	DRY CHEMICAL OR FOAM PREFERRED. WATER FOG MAY BE USED ON FLAT SURFACES SUCH AS ROADS.

\*NA=NOT APPLICABLE \*\*ND=NOT DETERMINED



SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS	MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HERMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.
UNUSUAL FIRE AND EXPLOSION HAZARD	NORMAL COMBUSTION FORMS CARBON DIOXIDE AND WATER VAPOR, AND MAY PRODUCE OXIDES OF SULFUR AND NITROGEN. INCOMPLETE COMBUSTION CAN PRODUCE CARBON MONOXIDE. ACRID SMOKE/FUMES/CARBON MONOXIDE/CARBON DIOXIDE AND PERHAPS OTHER TOXIC VAPORS MAY BE RELEASED DURING A FIRE INVOLVING THIS PRODUCT.

SECTION 4 – REACTIVITY DATA	
STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS AND MATERIALS TO AVOID	UNDER NORMAL CONDITIONS, PRODUCT IS STABLE.
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 OF THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY RESULT IN CENTRAL NERVOUS SYSTEM DEPRESSION.		
SIGNS AND SYMPTOMS OF OVEREXPOSURE	IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA.		
AGGRAVATED MEDICAL CONDITIONS	PREEXISTING EYE, SKIN, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.		
HAZARDOUS INGREDIENT: ASPHALT	CARCINOGENICITY		
NTP LISTED	NO		
IARC LISTED	YES		
OSHA REGULATED	NO		
OCCUPATIONAL EXPOSURE LIMITS:			
	OSHA	ACGIH	
COMPONENT	PEL/TWA (8 HR)	TLV/TWA (8 HR)	OTHER
ASPHALT		5mg/m <sup>3</sup>	
REPROCESSED RUBBER	15mg/m <sup>3*</sup>	10mg/m <sup>3**</sup>	
CARBON BLACK	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	
PROCESS OIL	5.0mg/m <sup>3**</sup>	n/a	

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ZINC OXIDE	5.0mg/m <sup>3**</sup>	10.0mg/m <sup>3</sup>	
SULFUR	n/a	10mg/m <sup>3***</sup>	
STEARIC ACID	n/a	n/a	

\* = particulates not otherwise classified (PNOC), 5mg/m<sup>3</sup> respirable fraction

\*\* = total dust, 5mg/m<sup>3</sup> respirable fraction

\*\*\* = ACGIH TLV for Nuisance Dust

<b>SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES</b>	
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 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. BE AWARE THAT H <sub>2</sub> S MAY BE PRESENT IF VICTIM IS UNCONSCIOUS. 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.

<b>SECTION 7 – PERSONAL HEALTH PROTECTION INFORMATION</b>	
PROTECTIVE CLOTHING	WEAR SAFETY GLASSES OR GOGGLES, GLOVES, AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO PREVENT CONTACT. AVOID PROLONGED OR REPEATED CONTACT 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 29CFR 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. LAUNDER CONTAMINATED CLOTHING BEFORE REUSING. USE GOOD PERSONAL HYGIENE PRACTICES.

<b>SECTION 8 – SPILL, LEAK &amp; DISPOSAL PROCEDURES</b>	
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	MAY BURN, ALTHOUGH NOT READILY IGNITABLE. WEAR PROTECTIVE CLOTHING AS APPROPRIATE. DISPOSE OF PROPERLY.
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 LANDFILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

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**SECTION 9 - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION**

WHEN ASPHALTC 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. LAUNDRY CONTAMINATED CLOTHING BEFORE USING. DISCARD LEATHER GOODS WHEN THEY CANNOT BE DECONTAMINATED. OBSERVE GOOD PERSONAL HYGIENE. WASH HANDS THOROUGHLY AFTER WORKING WITH ASPHALT AND BEFORE EATING OR SMOKING.

D.O.T. CLASSIFICATION: NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION

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.

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