

CYCLOGEN M BASE OIL

Material Safety Data Sheet



Manufacturer's Name: Martin Asphalt Company	Date: September, 2009
Telephone Number: 800-662-0987	Address: 300 Christy Place
For Emergency Assistance Call: (713) 941-4410	South Houston, TX 77587

HMIS HAZARD IDENTIFICATION	DEGREE OF HAZARD	HAZARD RATINGS
	HEALTH: 2 FIRE: 1 REACTIVITY: 0	0= MINIMAL 1= SLIGHT 2= MODERATE 3= SERIOUS 4= SEVERE

SECTION 1 - COMPONENT DATA	
PRODUCT NAME:	CYCLOGEN M BASE OIL
COMMON NAME	PETROLEUM OIL NEC
CHEMICAL NAME	PETROLEUM HYDROCARBON

SECTION 2 - PHYSICAL DATA				
C.A.S. NUMBER:	MIXTURE (SEE DATA BELOW)			
BOILING POINT (°F):	>550°F (288C)			
SPECIFIC GRAVITY (H ₂ O=1):	0.96 – 1.01			
MELTING POINT:	N/A			
VAPOR PRESSURE:	(mmHg @ 20°C): < 0.1			
PERCENT VOLATILE:	N/A			
VAPOR DENSITY (AIR=1):	N/A			
EVAPORATIVE RATE (WATER=1):	< 1			
SOLUBILITY IN WATER:	NIL			
APPEARANCE AND ODOR:	NON TRANSPARENT DARK GREEN/BROWN LIQUID, PETROLEUM ODOR			
HAZARDOUS COMPONENTS	CAL-OSHA PEL-TWA (8 HOUR)	ACGIH TLV TWA (8 HOUR)	OTHER LIMITS RECOMMENDED	% BY WEIGHT
HEAVY NAPHTHENIC DISTILLATE SOLVENT EXTRACT CAS NO. 64742-11-6	5 mg/m ³ FOR MINERAL OILS	5 mg/m ³ (AS OIL MIST)	NONE	<31
DISTILLATE (PETROLEUM) HYDROTREATED HEAVY NAPHTHENIC CAS NO. 64742-52-5	5 mg/m ³ FOR MINERAL OILS	5 mg/m ³ (AS OIL MIST)	NONE	<29
PETROLEUM ASPHALT CAS NO. 8052-42-4	5 mg/m ³	0.5 mg/m ³ (AS THE INHALABLE FRACTION)	NIOSH REL 5 mg/m ³ (15 minute)	<46

SECTION 3 - FIRE & EXPLOSION DATA	
FLASH POINT (°F) & METHOD:	OVER 400 (COC)
FLAMMABILITY LIMITS:	LOWER: N/A UPPER: N/A
AUTO IGNITION TEMPERATURE (°F):	N/A
EXTINGUISHING MEDIA	WATER FOG, DRY CHEMICAL, FOAM OR CARBON DIOXIDE.

*NA=NOT APPLICABLE **ND=NOT DETERMINED



SPECIAL FIRE FIGHTING PROCEDURES	WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION SHOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHING MAY OCCUR, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.
UNUSUAL FIRE AND EXPLOSIVE CONDITIONS	DENSE SMOKE MAY BE GENERATED WHILE BURNING. CARBON MONOXIDE, CARBON DIOXIDE AND OTHER OXIDES MAY BE GENERATED AS PRODUCTS OF COMBUSTION. DEPENDING ON CONDITIONS, SOME ALIPHATIC ALDEHYDES AND CARBOXYLIC ACIDS ALSO MAY BE FORMED.
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 4 - REACTIVITY DATA	
STABILITY: STABLE	CONDITIONS TO AVOID: NONE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR	
INCOMPATIBILITY MATERIALS TO AVOID:	MAY REACT WITH STRONG OXIDIZERS.
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:	PROLONGED SKIN CONTACT MAY CAUSE IRRITATION.
EYE CONTACT:	NO DATA AVAILABLE.
INHALATION:	REMOVE THE PERSON TO FRESH AIR IF RESPIRATORY DISCOMFORT OCCURS.
CARCINOGENICITY:	ACGIH, NTP, OSHA AND IARC CARCINOGEN LISTS WERE CHECKED FOR THOSE COMPONENTS WITH CAS REGISTRY NUMBER (64742-11-6, 8052-42-4 AND 64742-52-5).
ACGIH:	THIS PRODUCT IS NOT LISTED AS CARCINOGENIC.
IARC:	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 INSTRUCTION
NTP:	THIS PRODUCT CONTAINS NO INGREDIENTS CLASSIFIED AS CARCINOGENS.
OSHA:	THIS PRODUCT CONTAINS NO INGREDIENTS CLASSIFIED AS CARCINOGENS.
CA PROP 65:	THIS PRODUCT CONTAINS CHEMICALS IN TRACE QUANTITIES THAT ARE ON THE CALIFORNIA PROPOSITION 65 LIST.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	PERSONS SUSCEPTIBLE TO DERMATITIS (SKIN RASH) MAY AGGRAVATE THEIR CONDITION BY SKIN CONTACT WITH THIS PRODUCT

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES	
EYE CONTACT	IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND SEEK MEDICAL ATTENTION. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL IMMEDIATELY.
SKIN CONTACT	WASH THE AREA WITH SOAPY WATER.
INGESTION	CONTACT A PHYSICIAN IMMEDIATELY.
INHALATION	IF OPERATING CONDITIONS CREATE AIRBORNE CONCENTRATIONS THAT EXCEED THE EXPOSURE STANDARD, MOVE THE PERSON TO FRESH AIR. ADMINISTER CPR IF REQUIRED. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. SEEK MEDICAL ATTENTION IMMEDIATELY.

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SECTION 7 - PERSONAL HEALTH PROTECTION INFORMATION	
EYE PROTECTION	WEAR APPROPRIATE SAFETY GLASSES, GOGGLES OR FACE SHIELD.
SKIN PROTECTION	LONG SLEEVED SHIRT AND LONG PANTS (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE. IF HANDLING HOT MATERIAL, USE INSULATED PROTECTIVE CLOTHING (BOOTS, GLOVES, APRONS, ETC.).
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 OPERATING CONDITIONS CREATE AIRBORNE CONCENTRATIONS THAT EXCEED THE EXPOSURE STANDARD, MOVE THE PERSON TO FRESH AIR. ADMINISTER CPR IF REQUIRED. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. SEEK MEDICAL ATTENTION IMMEDIATELY.

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.
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.
RCRA HAZARD CLASS	THIS PRODUCT IS NOT A CHARACTERISTIC HAZARDOUS WASTE UNDER RCRA. NO EPA WASTE NUMBERS ARE APPLICABLE FOR THIS PRODUCT'S COMPONENTS.

SECTION 9 - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION	
HANDLING AND STORAGE REQUIREMENTS	AVOID FIRE, SPARKS OR OPEN FLAME. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO ENSURE THAT THIS PRODUCT DOES NOT CONTACT THE EYES OR SKIN. THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOT REGULATIONS.
VENTILATION	USE ADEQUATE VENTILATION TO KEEP THE AIRBORNE CONCENTRATIONS OF THIS MATERIAL BELOW THE ESTABLISHED EXPOSURE LIMITS.
ADDITIONAL INFORMATION	THE COMPONENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY THE NATIONAL TOXICOLOGY PROGRAM (NTP). THEY ARE NOT REGULATED AS CARCINOGENS BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND HAVE NOT BEEN EVALUATED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC).

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.

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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

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