



MESA

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OIL, INC.

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Denver, CO 80030

Material Safety Data Sheet

EMERGENCY PHONE NUMBERS:

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information)
NEW MEXICO POISON INFORMATION CENTER: 1-800-432-6866 (for poisoning)
TEXAS (EL PASO) POISON INFORMATION CENTER: (915-533-1244 (for poisoning)

SPECIFICATION FUEL OIL

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: SPECIFICATION USED OIL FUEL
FORMULA: COMPLEX MIXTURE OF HYDROCARBONS
CHEMICAL FAMILY: PETROLEUM HYDROCARBON
SYNONYMS: USED OIL
DOT: 1270 COMBUSTIBLE LIQUID

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NO.	LIMIT	AMOUNT	AGENCY
OIL MIST	64741-88-4	8 HR TWA	5MG/M3	OSHA A:CGIG

OTHER INGREDIENT INFORMATION: SULFUR IN THE FORM OF MERCAPTANS OR HYDROGEN SULFIDE MAY BE PRESENT.

SECTION 3 - PHYSICAL DATA

BOILING POINT: 315*-575*F	SPECIFIC GRAVITY (WATER=1): 0.7-0.8
VAPOR PRESSURE: @100*F 25mm Hg	% VOLATILE BY VOLUME: N/A
VAPOR DENSITY (AIR=1): N/A	EVAPORATION RATE: NEGLIGIBLE
SOLUBILITY IN WATER: INSOLUBLE	AUTOIGNITION TEMP: 490*-546*F
ODOR THRESHOLD: N/A	
APPEARANCE AND ODOR: CLEAR TO BLACK LIQUID.	OILY, PETROLEUM ODOR.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: CLASS II, COMBUSTIBLE LIQUID
FLASH POINT: >150*F (PMCC)
FLAMMABLE LIMITS: LEL = 0.7% UEL = 5.0%
EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, HALON
SPECIAL FIRE FIGHTING PROCEDURES: MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. USE WATER TO KEEP FIRE EXPOSED CONTAINERS, COOL. USE FOAM TO

SMOTHER FIRE (IF USING FOAM DO NOT USE WATER TO COOL, WATER WILL WASH AWAY FOAM AND FIRE WILL REFLASH.)
UNUSUAL FIRE AND EXPLOSION HAZARDS: EVACUATE A RADIUS OF 1500 FEET FOR UNCONTROLLED FIRES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL GREAT DISTANCES AND FLASH BACK.

NFPA FIRE = 2 (MODERATE)

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID/INCOMPATIBILITY: STRONG OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE AND SULFUR DIOXIDE.

NFPA REACTIVITY =0 (MINIMAL)

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION, INGESTION, SKIN CONTACT.

HEALTH HAZARDS: IRRITANT/NARCOTIC. DEPRESSION OF CENTRAL NERVOUS SYSTEM RANGING FROM HEADACHES TO DEATH. KIDNEY AND LIVER DAMAGE POSSIBLE. ASPIRATION INTO LUNGS CAN CAUSE SEVERE LUNG DAMAGE LEADING TO PULMONARY EDEMA AND BRONCHIAL PNEUMONIA.

CARCINOGENICITY: INADEQUATE EVIDENCE AS A HUMAN CARCINOGEN. EVIDENCE OF CHRONIC SKIN CANCER IN LABORATORY ANIMALS. NOT LISTED BY NTP. IARC CLASS-2B. RECENT STUDIES HAVE SHOWN DIESEL EXHAUST TO BE POTENTIALLY CARCINOGENIC.

SIGNS AND SYMPTOMS OF EXPOSURE: RESPIRATORY TRACT IRRITATION. MAY CAUSE NAUSEA, CRAMPING, HEADACHES, COUGHING OR GAGGING AND DEPRESSION OF THE CENTRAL NERVOUS SYSTEM.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: DO NOT INDUCE VOMITING. IMMEDIATELY SEEK MEDICAL ATTENTION. GIVE WATER TO DILUTE, IF CONSCIOUS.

INHALATION: MAINTAIN RESPIRATION'S, ASSIST WITH ARTIFICIAL RESPIRATION IF NEEDED AND GIVE OXYGEN IF AVAILABLE AND TRAINED TO DO SO. SEEK MEDICAL ATTENTION. IF LIQUID IS IN LUNGS (ASPIRATED) SEEK MEDICAL CARE.

EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

SKIN: REMOVE FUEL SOAKED CLOTHING. WASH SKIN WITH SOAP AND WATER. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.

NFPA HEALTH =1 (MINIMAL)

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE ALL SOURCES OF IGNITION. CONTAIN SPILL. USE WATER FOG TO SUPPRESS VAPOR CLOUD. USE SCBA TO AVOID BREATHING VAPORS. ABSORB LIQUID WITH SAND OR CLAY, OR OTHER PETROLUM ABSORBENTS.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH RCRA REGULATIONS. DO NOT PUT IN SEWERS OR WATER COURSE.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: ALL EQUIPMENT AND STORAGE CONTAINERS SHOULD BE PROPERLY GROUNDED. THIS MATERIAL IS SUBJECT TO OSHA AND DOT REGULATIONS. PORTABLE METAL CONTAINERS SHOULD BE BONDED TO THE STORAGE CONTAINER BEFORE TRANSFERRING LIQUID.

OTHER PRECAUTIONS: AVOID BREATHING VAPORS. VAPORS MAY BE EXPLOSIVE. DO NOT WELD ON CONTAINERS UNLESS PROPERLY CLEANED AND PURGED USING SAFE WORK PROCEDURES. TRACE AMOUNTS OF HYDROGEN SULFIDE MAY BE PRESENT IN THE PRODUCT. ACCUMULATION OF HYDROGEN SULFIDE MAY OCCUR IN VAPOR SPACES OF CONFINED SPACES WHERE THIS PRODUCT IS HANDLED, STORED OR USED.

SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION IN AREAS EXCEEDING EXPOSURE LIMITS, THE TYPE TO BE DETERMINED BY THE DEGREE OF EXPOSURE.

VENTILATION: USE IN WELL VENTILATED AREA OR PROVIDE VENTILATION TO LIMIT EXPOSURE TO ACCEPTABLE LEVELS.

EYE / SKIN PROTECTION: RUBBER GLOVES, FACE SHIELDS, GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS, COVERALLS.

WORK/HYGIENIC PRACTICES: REMOVE CONTAMINATED CLOTHING AS SOON AS POSSIBLE. ALWAYS WASH AFTER HANDLING HAZARDOUS CHEMICALS.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 27 FOR ADDITIONAL EMERGENCY INFORMATION.

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