



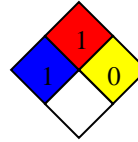
Product Name: SPEC FUEL OIL
Product Number: 944

MATERIAL SAFETY DATA SHEET

BOTAVIA ENERGY, LLC.
4535 SAHARA AVE, STE#200
LAS VEGAS, NV 89102

INFORMATION PHONE NUMBER: (866) 901-0544 x 702

EMERGENCY PHONE NUMBER: (800) 424-8802 National Response Center



0 – Least
1 – Slight
2 – Moderate
3 – High
4 - Extreme

IDENTITY (As used on label and List): **SPEC 944**

SECTION 1. GENERAL

PRODUCT NAME / TRADE NAME: **SPEC 944 / CUTTER STOCK / RECYCLED FUEL OIL / FEEDSTOCK / FUEL OIL**

FORMULA: **COMPLEX MIXTURE OF HYDROCARBONS**

CHEMICAL FAMILY: **PETROLEUM HYDROCARBON**

SYNONYMS: **USED OIL**

DOT: **FUEL OIL, NA1993, PG III - COMBUSTIBLE LIQUID
FLASH >200°F – PLACARDS NOT REQUIRED**

SECTION 2. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| 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/CHEMICAL CHARACTERISTICS

BOILING POINT: **315 – 575°F** SPECIFIC GRAVITY(H2O=1): **0.7 - 0.8**

VAPOR PRESSURE @ 100°F: **25mm Hg** MELTING POINT: **N/A**

VAPOR DENSITY (AIR=1): **N/A** EVAPORATION RATE: **0.001**

SOLUBILITY IN WATER: **INSOLUBLE** Ph: **N/A**

APPEARANCE & (ODOR): **CLEAR – DARK (OIL LIKE)**

SECTION 4. FIRE & EXPLOSION HAZARD DATA

FLASH POINT: **>200°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 & EXPLOSION HAZARDS: **EVACUATE A RADIUS OF 1500 FEET FOR UNCONTROLLED FIRES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL GREAT DISTANCES AND FLASH BACK.**

SECTION 5. REACTIVITY DATA

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| STABILITY: | STABLE, WILL NOT REACT WITH WATER |
| INCOMPATIBILITY (MATERIAL TO AVOID): | STRONG OXIDZERS |
| HAZARDOUS DECOMPOSITION OR BYPRODUCTS: | CARBON DIOXIDE, CARBON MONOXIDE AND SULFUR DIOXIDE |
| HAZARDOUS POLYMERIZATION: | WILL NOT OCCUR |
| CONDITIONS TO AVOID: | DO NO WELD, HEAT OR DRILL CONTAINER. RESIDUE MAY IGNITE WITH EXPLOSIVE VIOLENCE IF HEATED SUFFICIENTLY. CAUTION, DO NOT USE PRESSURE TO EMPTY DRUM OR EXPLOSION MAY RESULT. |

SECTION 6. HEALTH HAZARD DATA

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| HEALTH HAZARDS (Acute & Chronic): | IRRITANT\NARCOTIC. DEPRESSION OF CENTRAL NERVOUS SYSTEM RANGING FROM HEADACHES TO DEATH. KIDNEY AND LIVER DAMAGE POSSIBLE. ASPIRATION INTO LUNGE 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 & SIMPTOMS OF EXPOSURE: | RESPIRATORY TRACT IRRITATION. MAY CAUSE NAUSEA, CRAMPING, HEADACHES, COUGHING OR GAGGING AND DEPRESSION OF THE CENTRAL NERVOUS SYSTEM. |
| MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: | CONTACT WITH SKIN MAY AGGRAVATE PRE-EXISTING DERMATITIS. |
| EMERGENCY AND FIRST AID PROCEDURES: | <p>INGESTION: DO NOT INDUCE VOMITING. IMMEDIATELY SEEK MEDICAL ATTENTION. GIVE WATER TO DILUTE, IF CONSCIOUS.</p> <p>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.</p> <p>SKIN: REMOVE FUEL SOAKED CLOTHING. WASH SKIN WITH SOAP AND WATER. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.</p> <p>EYES: FOR DIRECT CONTACT, FLUSH EYES WITH WATER FOR 15 MINUTES LIFTING UPPER AND LOWER LIDS OCCASIONALLY. CONSULT PHYSICIAN IF IRRITATION OR PAIN PERSISTS.</p> |

SECTION 7. PRECAUTIONS FOR SAFE HANDLING

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| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: | REMOVE ALL IGNITION SOURCES, AND AVOID BREATHING VAPORS. VENTILATE AREA IF CONFINED. CONTAIN AS A LIQUID FOR POSSIBLE RE-REFINING IF POSSIBLE BY DIKING AROUND OIL WITH A SUITABLE MATERIAL. IF NOT, ABSORB SPILLED LIQUID IN SAND OR INERT ABSORBENT. |
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CONTAIN AWAY FROM SURFACE WATERS AND SEWERS. SHOVEL INTO CLOSABLE CONTAINER FOR DISPOSAL. CONTACT THE COAST GUARD NATIONAL RESPONSE CENTER (800) 424-8802 IF A SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS. DO NOT PUT IN SEWERS OR WATER COURSE.

PRECAUTION 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. CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type); 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.

SECTION 9. ADDITIONAL INFORMATION

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

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