

FRONTIER OIL AND REFINING CO. -- 1 DIESEL FUEL -- 9140-00-286-5289

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Product Identification
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Product ID:1 DIESEL FUEL

MSDS Date:01/01/1987

FSC:9140

NIIN:00-286-5289

MSDS Number: BQMBR

=== Responsible Party ===

Company Name:FRONTIER OIL AND REFINING CO.

Address:1700 LINCOLN SUITE 2100

City:DENVER

State:CO

ZIP:80203

Country:US

Info Phone Num:307-634-3551/303-860-6100

Emergency Phone Num:80

0-424-9300(CHEMTREC)

CAGE:0A0Y5

=== Contractor Identification ===

Company Name:FRONTIER OIL AND REFINING COMPANY

Address:1600 BROADWAY

Box:City:DENVER

State:CO

ZIP:80202

Country:US

Phone:307-634-3551 CHEMTREC 800-424-9300

CAGE:0A0Y5

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Composition/Information on Ingredients
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Ingred Name:DIESEL FUEL

Fraction by Wt: 100%

Other REC Limits:5 MG/M3 IF MISTING

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Hazards Identification
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Routes of Entry: Inhalation:YES Skin:YES I

ngestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: MILD EYE AND SKIN IRRITATION, UPPER RESPIRATORY TRACT IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS, UNCONSCIOUSNESS AND DEATH. ASPIRATION INTO LUNGS AFTER INGESTION MAY CAUSE SEVERE PULMONARY INJURY, POSSIBLY DEATH. INJECTION OF PRODUCT UNDER SKIN MAY CAUSE SERIOUS TISSUE DAMAGE. CHRONIC: DERMATITIS.

Explanation of Carcinogenicity:SIMILAR PRODUCTS USUALLY PRODUCED SKIN

CANCER IN LABORATORY MICE. DIESEL EXHAUST HAVE INCREASED CANCER IN LAB ANIMALS.

Effects of Overexposure:EYE/SKIN: MILD IRRITATION. PROLONGED CONTACT PRODUCES SKIN DRYNESS, IRRITATION. INHALATION: EYE AND RESPIRATORY TRACT IRRITATION, HEADACHE, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS, DEATH.

Medical Cond Aggravated by Exposure:SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS.

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===== First Aid Measures =====

First Aid:EYES:

FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHING, WASH WITH SOAP AND WATER. INJECTION: THIS IS A SERIOUS MEDICAL EMERGENCY. SEE DOCTOR IMMEDIATELY REGARDLESS OF APPEARANCE OR SIZE. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY.

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===== Fire Fighting Measures =====

Flash Point Method:TCC

Flas

h Point:>115F,>46C

Autoignition Temp:Autoignition Temp Text:410F

Lower Limits:0.5

Upper Limits:6

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:IF LEAK HAS NOT IGNITED USE WATER SPRAY TO DISPERSE VAPORS AND PROVIDE PROTECTION TO FIREFIGHTERS. VAPORS

HEAVIER THAN AIR. CAN TRAVEL ALONG GROUND & FLASHBACK.

===== Accidental Release Measures =====

Spill Release Procedures: REMOVE ALL SOURCES OF IGNITION. VENTILATE AND REMOVE WITH INERT ABSORBENT. USE NON-SPARKING TOOLS. FOR LARGE SPILLS, CONTAIN WITH EARTHEN DIKE OR PETROLEUM ABSORBENT MATERIAL. REMOVE WITH GROUNDED SUCTION PUMP.

===== Handling and Storage =====

Handling and Storage Precautions: CONTENTS ARE FLAMMABLE.

KEEP AWAY FROM

HEAT, SPARKS, AND OPEN FLAME. DURING USE AND UNTIL ALL VAPORS ARE GONE: KEEP AREA VENTILATED-DO NOT SMOKE.

Other Precautions: AVOID BREATHING OF VAPORS. LABORATORY TESTS ON ANIMALS HAVE SHOWN THAT EXPOSURE CAN CAUSE SKIN TUMORS. ALWAYS PROMPTLY WASH OFF ANY EXPOSED SKIN.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: WEAR A NIOSH/MSHA APPROVED RESPIRATOR IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL/TLV.

WEAR SELF-CONTAINED BREATHING APPARATUS IF REQUIRED FOR HIGH LEVELS OF CONTAMINANTS.

Ventilation: GENERAL (MECHANICAL) VENTILATION IS NORMALLY ADEQUATE.

Protective Gloves: VINYL, NEOPRENE, NBR.

Eye Protection: SPLASH GOGGLES OR FACESHIELD.

Other Protective Equipment: INDUSTRIAL-TYPE WORK CLOTHING, HAT AND APRON AS REQUIRED. AN EYE WASH AND DRENCH SHOWER FACILITY SHOULD BE AVAILABLE.

Work Hygienic Practices: MINIMIZE SKIN CONTACT AND BREATHING VAPORS.

WASH AFTER HANDLING. RE

MOVE AND LAUNDRER CONTAMINATED CLOTHING.

Supplemental Safety and Health

KEEP CONTAINER CLOSED WHEN NOT IN USE. TRANSFER ONLY TO APPROVED CONTAINERS WITH COMPLETE AND APPROPRIATE LABELING. DO NOT TAKE INTERNALLY. "EMPTY" DRUMS OF THIS MATERIAL CAN BE DANGEROUS - AVOID CUTTING, WELDING, BRAZING, DRILLING ETC WHICH CAN CREATE HIGH TEMPERATURES AND SPARKS.

===== Physical/Chemical Properties =====

HCC:F4

Boiling Pt: B.P. Text: 350F, 177C

Vapor Pres: 2 @ 68F

V

apor Density:>1
Spec Gravity:0.81
Viscosity:1.7 CST @104F
Solubility in Water:NEGLIGIBLE
Appearance and Odor:CLEAR LIQUID. Kerosine Odor.
Percent Volatiles by Volume:NIL

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS SUCH AS LIQUID CLHORINE, OXYGEN-RICH AIR,
SODIUM HYPOCHLORITE, CALCIUM HYPOCHLORITE, ETC.
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION
Hazardous Dec
omposition Products:INCOMPLETE COMBUSTION MAY PRODUCE
FUMES, SMOKE, CARBON MONOXIDE, OTHER INCOMPLETELY BURNED
HYDROCARBONS.

===== Disposal Considerations =====

Waste Disposal Methods:WASTE MATERIAL MAY BE A HAZARDOUS WASTE (CODE
D001) WHICH MUST BE DISPOSED OF ACCORDINGLY. MANUFACTURER
RECOMMENDS INCINERATION. DISPOSE OF IN ACCORDANCE WITH FEDERAL,
STATE AND LOCAL REGULATIONS.

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