

FRONTIER OIL & REFINING COMPANY -- NO. 2 DIESEL FUEL -- 9140-00-286-5296

===== Product Identification =====

Product ID:NO. 2 DIESEL FUEL

MSDS Date:01/01/1987

FSC:9140

NIIN:00-286-5296

MSDS Number: BKNVD

=== Responsible Party ===

Company Name:FRONTIER OIL & REFINING COMPANY

Address:1600 BROADWAY

City:DENVER

State:CO

ZIP:80202

Country:US

Info Phone Num:307-634-3551

Emergency Phone Num:800-424-9300(C

HEMTREC)

CAGE:JO753

=== Contractor Identification ===

Company Name:FRONTIER OIL & REFINING CO

Address:1600 BROADWAY

Box:City:DENVER

State:CO

ZIP:80202

Country:US

CAGE:JO753

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Country:US

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

CAGE:0A0Y5

===== Composition/Information on Ingredients =====

Ingred Name:HYDROCARBONS

Other REC Limits:NONE SPECIFIED

===== Hazards

Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:THE PRODUCT MAY CAUSE IRRITATION TO EYES, SKIN, AND LUNGS AFTER PROLONGED OR REPEATED EXPOSURE. EXTREME EXPOSURE OR ASPIRATION INTO THE LUNGS MAY CAUSE PNEUMONIA.

Explanation of Carcinogenicity:STUDIES WITH RODENTS HAVE SHOWN THAT PETROLEUM DISTILLATES HAVE CAUSED KIDNEY DAMAGE & KIDNEY OR LIVER TUMORS

Effects of Overexposure:OVEREXPOSURE MAY CAUSE WEAKNESS, HEADACHE, DROWSINESS, CONFUSION, BLURRED VISION, OR NAUSEA; GREATER EXPOSURE MAY CAUSE DIZZINESS, SLURRED SPEECH, FLUSHED FACE, UNCONSCIOUSNESS, OR CONVULSION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE-IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES & SEEK MEDICAL ATTENTION. SKIN-REMOVE SOILED CLOTHES. WASH SKIN WITH SOAP

& WATER. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN. INHALE-REMOVE TO FRESH AIR. IF STOP BREATHING, GIVE CPR. SEEK MEDICAL ATTENTION. INGEST-DO NOT INDUCE VOMITING. IF VOMIT OCCURS, LOWER HEAD IN AN EFFORT TO PREVENT VOMITUS FROM ENTERING LUNGS. SEEK MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:130F,54C

Autoignition Temp:Autoignition Temp Text:494F

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

Fire Fighting Procedures:IF LEAK/SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS & TO FLUSH SPILLS AWAY FROM EXPOSURES. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:PRODUCT OF COMBUSTION MAY CONTAIN CARBON MONOXIDE & DIOXIDE & OTHER TOXIC MATERIALS. DO NOT ENTER ENCLOSED SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT/RESPIRATOR.

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

Spill R

Release Procedures: MATERIAL IS COMBUSTIBLE. CONTAIN SPILL IMMEDIATELY. RECOVER BY VACUUMING, THEN SOAK UP RESIDUAL FLUID BY USING ABSORBENT MATERIALS. NONRECOVERABLE PRODUCT, CONTAMINATED SOIL, DEBRIS & OTHER MATERIALS SHOULD BE PLACED IN PROPER CONTAINERS FOR DISPOSAL.

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

Handling and Storage Precautions: PRODUCT IS CLASS II COMBUSTIBLE LIQUID PER NFPA CODE NO. 30-1987. STORE AND HANDLE ACCORDINGLY.

Other Precautions:

AVOID WASHING, DRAINING OR DIRECTING SPILLED MATERIAL TO STORM OR SANITARY SEWER. IF CONDITIONS WARRANT, WEAR PROTECTIVE AND IF APPLICABLE USE EXPLOSION-PROOF EQUIPMENT.

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

Respiratory Protection: USE AIR MASK OR HYDROCARBON ABSORBING RESPIRATOR WHEN EXPOSED TO OIL SPRAY OR MISTS.

Ventilation: GENERAL MECHANICAL VENTILATION IS NORMALLY ADEQUATE.

Protective Gloves: VINYL, NEOPRENE OR NBR.

Eye Protection: FACE SHIELD RECOMMENDED.

Other Protective Equipment: COVERALLS OR OTHER PROTECTIVE APPAREL NEEDED IF SPLASH IS PROBABLE. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Work Hygienic Practices: KEEP BODY CONTACT AND SPLASH TO A MINIMUM.

Supplemental Safety and Health

AVOID ALL IGNITION SOURCES UNTIL THE CONTAMINATED STORAGE CONTAINER IS ISOLATED AND CLEAR OF ALL FLAMMABLE AND TOXIC VAPOR CONCENTRATIONS. USE ADEQUATE VENTILATION TO REMOVE VAPOR FROM CONTAINER.

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

HCC: F4

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

Vapor Pres: 1

Spec Gravity: 0.85-0.93

Solubility in Water: INSOLUBLE

Appearance and Odor: CLEAR OR LIGHT YELLOW LIQUID; AROMATIC ODOR.

Percent Volatiles by Volume: NIL

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZING MATERIALS.

Stability Condition to Avoid: HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products: INCOMPLETE COMBUSTION MAY PRODUCE CARB

ON MONOXIDE.

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

Waste Disposal Methods:RECYCLE AS MUCH OF THE RECOVERABLE PRODUCT AS POSSIBLE. DISPOSE OF NONRECYCLABLE MATERIAL BY SUCH METHODS AS INCINERATION, COMPLYING WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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