



**HOLLYFRONTIER**  
 NAVAJO REFINING COMPANY, LLC

**MATERIAL SAFETY DATA SHEET - DIESEL #2**

**SECTION 1 - PRODUCT and COMPANY IDENTIFICATION**

**MANUFACTURER:**

NAVAJO REFINING COMPANY, LLC  
 PO BOX 159  
 ARTESIA, NM 88211-0159

**CONTACT INFORMATION:**

Main Telephone – (575) 748-3311  
 Safety Department – (575) 365-8364 (24 Hours)  
 Environmental Department – (575) 365-8365 (24 Hours)

**EMERGENCY PHONE NUMBERS:**

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information)  
 New Mexico Poison Information Center: 1-800-432-6866  
 Texas (El Paso) Poison Information Center: (915) 533-1244  
 Arizona Poison Information Center: 1-800-362-0101 or (602) 253-3334

PRODUCT NAME: Diesel Fuel, Low Sulfur  
 CAS NUMBER: 68476-34-6  
 CHEMICAL FAMILY: Petroleum Hydrocarbon  
 FORMULA: C<sub>10</sub>H<sub>22</sub> – C<sub>16</sub>H<sub>34</sub>  
 SYNONYMS: NA 1993, Diesel Fuel #2, Petroleum Distillate, Diesel,  
 #2 Fuel Oil, On-Road Diesel, Ultra Low Sulfur Diesel, Off-Road Diesel  
 SHIPPING NAME: Diesel Fuel, 3, NA 1993, 111



NFPA 704 (SECTION 16)

**SECTION 2 - HAZARDOUS INGREDIENTS**

HAZARDOUS COMPONENTS	VOL %	CAS NO.	OSHA LIMITS (TWA)		NIOSH LIMITS (TWA)			ACGIH LIMITS (TWA)	
			PEL	STEL	REL	STEL	IDLH	TLV	STEL
Diesel Fuel Containing	99%	68476-34-6	NE	NE	NE	NE	NE	100 mg/m <sup>3</sup> *	NE
Naphthalene	1%	91-20-3	10 ppm	NE	10 ppm	15 ppm	250 ppm	10 ppm *	15 ppm

OTHER INGREDIENT INFORMATION: Low Sulfur Diesel Fuel may contain sulfur in the form of mercaptans or hydrogen sulfide in amounts up to 0.0015% by weight. **NE** designates Not Established. \* Skin designation.

**SECTION 3 - PHYSICAL DATA**

BOILING POINT: 315 – 575°F  
 VAPOR PRESSURE: 25 mmHg @ 100°F  
 VAPOR DENSITY (AIR=1): N/A  
 SOLUBILITY IN WATER: Insoluble  
 ODOR THRESHOLD: N/A  
 APPEARANCE AND ODOR: Clear to yellow liquid with oily, petroleum odor. May be dyed red for off-road usage (agriculture, mining, etc.).

SPECIFIC GRAVITY (WATER=1): 0.7 – 0.8  
 % VOLATILE BY VOLUME: N/A  
 EVAPORATION RATE: No data available  
 AUTOIGNITION TEMP: 490 – 546°F

## DIESEL #2

### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: Class II Combustible Liquid

FLASH POINT: 140°F (PMCC)

FLAMMABLE LIMITS: LEL = 0.7% UEL = 5.0%

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, or Halon.

SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area if possible. Use water to keep fire-exposed containers cool. Use foam for spill control.

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. Extinguish only if flow can be stopped.

**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, eye 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. Limited evidence as an animal carcinogen. Not listed by NTP. IARC Class IIB. 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, or depression of the central nervous system.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Maintain respiration, assist with artificial respiration, if needed, and give oxygen in available and trained to do so. Seek medical attention. If liquid is in lungs (aspirated), seek medical attention.

INGESTION: Do not induce vomiting. Immediately seek medical attention. Give water to dilute, if conscious.

EYES: Flush eyes with water for at least 15 minutes. Seek medical attention.

SKIN: Remove diesel-soaked clothing. Wash skin with soap and water. If irritation persists, seek medical attention.

**NFPA HEALTH = 0 (minimal)**

## **DIESEL #2**

### **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, if possible. Use water fog to suppress vapor cloud. Use SCBA to avoid breathing vapors. Absorb liquid with sand or clay.

**WASTE DISPOSAL:** Dispose in accordance with RCRA regulations. Do not put in sewers or any watercourse.

**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:** Vapors may be explosive. Do not weld on containers unless properly cleaned and purged using safe work practices. Trace amounts of hydrogen sulfide (H<sub>2</sub>S) 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. Mechanical exhaust should be explosion-proof.

**EYE/SKIN PROTECTION:** Face shields, chemical protective gloves, goggles and safety glasses with side shields, and coveralls with long sleeves.

**WORK/HYGIENIC PRACTICES:** Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

**NOTICE:** This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 111 FOR ADDITIONAL EMERGENCY INFORMATION.**

This information is believed to be accurate and as reliable as information available to us. We make no warranty or guarantee as to its accuracy and assume no liability from its use. Users should determine the suitability of the information for their particular purposes.