



**Chemical Name:** Diesel

**Manufacturer:** Western Refining Company

**Container size:** 55 gallon

**Location:** VLA

**Disposal:** Place empty container in trash. Give partial or full container to safety officer.

# Material Safety Data Sheet



DIESEL FUEL No. 2

## 1. Product and company identification

Product name : DIESEL FUEL No. 2  
 Synonym : WESTERN LS Diesel 2, Diesel Fuel Oil, Gas Oil, HS Diesel 2, HS Heating Fuel 2, LS Diesel 2, LS Heating Fuel 2, Marine Diesel, RR Diesel Fuel  
 Material uses : Fuel.  
 Supplier/Manufacturer : WESTERN REFINING COMPANY LP  
 6501 TROWBRIDGE DRIVE  
 EL PASO TX 79905-3402  
 Phone: (915) 775-3300  
 Fax: (915) 775-3420  
 MSDS authored by : KMK Regulatory Services inc.  
 In case of emergency : CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887  
 Product type : Liquid.

## 2. Hazards identification

Color : Various  
 Physical state : Liquid.  
 Odor : Petroleum.  
 Signal word : WARNING!  
 Hazard statements : COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER.  
 Precautions : Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.  
 OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential acute health effects

Inhalation : Harmful by inhalation. Irritating to respiratory system.  
 Ingestion : Aspiration hazard if swallowed. Can enter lungs and cause damage. May be harmful if swallowed.  
 Skin : Irritating to skin. Can cause dermatitis.  
 Eyes : Irritating to eyes.

### Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.  
 Carcinogenicity : Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.  
 Mutagenicity : No known significant effects or critical hazards.  
 Teratogenicity : No known significant effects or critical hazards.  
 Developmental effects : No known significant effects or critical hazards.  
 Fertility effects : No known significant effects or critical hazards.  
 Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes, central nervous system (CNS).

### Over-exposure signs/symptoms

## 2. Hazards identification

<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Ingestion</b>	: Adverse symptoms may include the following: nausea or vomiting
<b>Skin</b>	: Adverse symptoms may include the following: irritation redness
<b>Eyes</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Medical conditions aggravated by over-exposure</b>	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
Fuel, diesel <b>Contains:</b> Distillates (petroleum), straight-run middle Distillates (petroleum), light catalytic cracked Kerosene Kerosine (petroleum), hydrodesulfurized Naphthalene	68476-34-6  64741-44-2 64741-59-9 8008-20-6 64742-81-0 91-20-3	100

### Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
Fuel, diesel <b>Contains:</b> Distillates (petroleum), straight-run middle Distillates (petroleum), light catalytic cracked Kerosene Kerosine (petroleum), hydrodesulfurized	68476-34-6 64741-44-2 64741-59-9 8008-20-6 64742-81-0	UN1202/UN1993 Not regulated. UN1270 Not regulated. UN1993	100	- - - - -	0 2 2 1 1	2 2 2 1 1	0 0 0 0 0	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
<b>Inhalation</b>	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Call medical doctor or poison control center immediately. Contact your local Poison Control Center.
<b>Ingestion</b>	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.

## 4. First aid measures

- Protection of first-aiders** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

- Flammability of the product** : Combustible liquid.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous thermal decomposition products** : No specific data.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Small spill** : Absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Keep away from heat, sparks and flame.

## 7. Handling and storage

**Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

Ingredient	Exposure limits
Fuel, diesel	<b>ACGIH TLV (United States, 1/2009). Absorbed through skin.</b> TWA: 100 mg/m <sup>3</sup> , (measured as total hydrocarbons) 8 hour(s). Form: Total hydrocarbons
Kerosene	<b>NIOSH REL (United States, 6/2009).</b> TWA: 100 mg/m <sup>3</sup> 10 hour(s).
Naphthalene	<b>ACGIH TLV (United States, 1/2009). Absorbed through skin.</b> TWA: 200 mg/m <sup>3</sup> 8 hour(s).
	<b>ACGIH TLV (United States, 1/2009).</b> STEL: 79 mg/m <sup>3</sup> 15 minute(s). STEL: 15 ppm 15 minute(s). TWA: 52 mg/m <sup>3</sup> 8 hour(s). TWA: 10 ppm 8 hour(s).
	<b>NIOSH REL (United States, 6/2009).</b> STEL: 75 mg/m <sup>3</sup> 15 minute(s). STEL: 15 ppm 15 minute(s). TWA: 50 mg/m <sup>3</sup> 10 hour(s). TWA: 10 ppm 10 hour(s).
	<b>OSHA PEL (United States, 11/2006).</b> TWA: 50 mg/m <sup>3</sup> 8 hour(s). TWA: 10 ppm 8 hour(s).

### Mexico

Ingredient	Exposure limits
Fuel, diesel	<b>ACGIH TLV (United States, 1/2009). Absorbed through skin.</b> TWA: 100 mg/m <sup>3</sup> , (measured as total hydrocarbons) 8 hour(s). Form: Total hydrocarbons
Kerosene	<b>ACGIH TLV (United States, 1/2009). Absorbed through skin.</b> TWA: 200 mg/m <sup>3</sup> 8 hour(s).

Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

**Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Respiratory** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Not required under normal conditions of use. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

**Hands** : Use gloves appropriate for work or task being performed. Not required under normal conditions of use. Recommended: Neoprene, PVC, vinyl or rubber.

**Eyes** : Safety eyewear should be used when there is a likelihood of exposure. Not required under normal conditions of use. Recommended: Safety glasses with side shields.

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. No special protective clothing is required. Recommended: Overall.

## 8. Exposure controls/personal protection

**Environmental exposure controls** : In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

**Physical state** : Liquid.  
**Flash point** : Closed cup: 52°C (125.6°F) [Pensky-Martens.]  
**Auto-ignition temperature** : 257°C (494.6°F)  
**Flammable limits** : Lower: 0.6%  
 Upper: 4.7%  
**Color** : Various  
**Odor** : Petroleum.  
**Boiling/condensation point** : 175.6°C (348.1°F)  
**Relative density** : 0.8 to 0.88  
**Vapor pressure** : 0.04 kPa (0.3 mm Hg)  
**Vapor density** : >1 [Air = 1]  
**Viscosity** : Kinematic (40°C (104°F)): 0.019 to 0.041 cm<sup>2</sup>/s (1.9 to 4.1 cSt)  
**Solubility** : Insoluble

## 10. Stability and reactivity

**Chemical stability** : The product is stable.  
**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid exposure - obtain special instructions before use. Do not swallow.  
**Materials to avoid** : Reactive or incompatible with the following materials:  
 oxidizing materials  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrodesulfurized middle	LC50 Inhalation Vapor	Rat	4600 mg/m <sup>3</sup>	4 hours
Distillates (petroleum), straight-run middle	LC50 Inhalation Vapor	Rat	1700 mg/m <sup>3</sup>	4 hours
Distillates (petroleum), light catalytic cracked	LC50 Inhalation Vapor	Rat	3400 mg/m <sup>3</sup>	4 hours
Kerosene Naphthalene	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Oral	Rat	15 g/kg	-
	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Dermal	Rat	>2500 mg/kg	-
	LD50 Oral	Rat	490 mg/kg	-

## 11. Toxicological information

### Chronic toxicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Fuel, diesel	A3	3	-	-	-	-
Distillates (petroleum), light catalytic cracked	-	2A	-	-	-	-
Kerosene	A3	-	-	-	-	-
Naphthalene	A4	2B	-	None.	Possible	-

## 12. Ecological information

Environmental effects : Not established

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Naphthalene	Acute EC50 1600 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
	Acute LC50 2350 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 ug/L Fresh water	Fish - Melanotaenia fluviatilis - LARVAE - 1 days	96 hours
	Chronic NOEC 600 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1993	FLAMMABLE LIQUIDS, N.O.S. (Fuel diesel)	3	III		-
Mexico Classification	UN1202	GAS OIL	3	III		-
IMDG Class	UN1202	GAS OIL	3	III		-
IATA-DGR Class	UN1202	GAS OIL	3	III		-

PG\* : Packing group

Exemption to the above classification may apply.

AERG : 128

## 15 . Regulatory information

### United States

**HCS Classification** : Combustible liquid  
Toxic material  
Irritating material  
Carcinogen  
Target organ effects

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: Not determined.

**SARA 302/304/311/312 extremely hazardous substances**: No products were found.

**SARA 302/304 emergency planning and notification**: No products were found.

**SARA 302/304/311/312 hazardous chemicals**: Kerosene; Distillates (petroleum), light catalytic cracked

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**:

Kerosene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Distillates (petroleum), light catalytic cracked: Delayed (chronic) health hazard

**Clean Water Act (CWA) 307**: Naphthalene

**Clean Water Act (CWA) 311**: Naphthalene

**Clean Air Act (CAA) 112 accidental release prevention**: No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances**: No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances**: No products were found.

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 313

	Product name	CAS number	Concentration
<b>Form R - Reporting requirements</b>	Naphthalene	91-20-3	0 - 0.1
<b>Supplier notification</b>	Naphthalene	91-20-3	0 - 0.1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**State regulations** : **Connecticut Carcinogen Reporting**: None of the components are listed.  
**Connecticut Hazardous Material Survey**: None of the components are listed.  
**Florida substances**: None of the components are listed.  
**Illinois Chemical Safety Act**: None of the components are listed.  
**Illinois Toxic Substances Disclosure to Employee Act**: None of the components are listed.  
**Louisiana Reporting**: None of the components are listed.  
**Louisiana Spill**: None of the components are listed.  
**Massachusetts Spill**: None of the components are listed.  
**Massachusetts Substances**: The following components are listed: Kerosene  
**Michigan Critical Material**: None of the components are listed.  
**Minnesota Hazardous Substances**: None of the components are listed.  
**New Jersey Hazardous Substances**: The following components are listed: Fuel, diesel; Kerosene; Naphthalene

## 15 . Regulatory information

**New Jersey Spill:** None of the components are listed.

**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.

**New York Acutely Hazardous Substances:** The following components are listed:  
Naphthalene

**New York Toxic Chemical Release Reporting:** None of the components are listed.

**Pennsylvania RTK Hazardous Substances:** The following components are listed:  
Kerosene; Naphthalene

**Rhode Island Hazardous Substances:** None of the components are listed.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Naphthalene	Yes.	No.	Yes.	No.

### Mexico

Classification :



### International regulations

International lists :

- Australia inventory (AICS):** All components are listed or exempted.
- China inventory (IECSC):** All components are listed or exempted.
- Japan inventory:** Not determined.
- Korea inventory:** All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines inventory (PICCS):** Not determined.

## 16 . Other information

**Hazardous Material Information System (U.S.A.) :** Health : 2 \* Flammability : 2 Physical hazards : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.) :** Health : 2 Flammability : 2 Instability : 0

**References :** ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

**Date of issue :** 07/26/2010

**Version :** 1

## 16 . Other information

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.