



24-HOUR EMERGENCY TELEPHONE

SPRAGUE: 603-431-1000

CHEMTREC: 800-424-9300

SDS – SAFETY DATA SHEET

1. Identification

Product Identifier: ULTRA LOW SULFUR DIESEL FUEL # 2

Synonyms: HIGHWAY DIESEL FUEL OIL, #2, FUEL OIL (ULTRA LOW SULFUR DIESEL)

Chemical Formula: Not applicable to mixtures

Recommended Use of the Chemical and Restrictions On Use: Fuel

Manufacturer / Supplier: Sprague Operating Resources LLC

Phone: 603-431-1000

185 International Drive, Portsmouth, NH 03801

Emergency Phone Number: SPRAGUE: 603-431-1000; CHEMTREC: 800-424-9300

2. Hazard(s) Identification

Classification of the Substance or Mixture:

Flammable Liquids - Category 4

Carcinogenicity - Category 2

Specific Target Organ Toxicity (Single Exposure) – Category 3

Aspiration Hazard – Category 1

Acute Aquatic Toxicity – Category 3

Risk Phrases:

R40: Limited evidence of a carcinogenic effect.

R52: Harmful to aquatic organisms.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapors may cause drowsiness and dizziness.

Label Elements:

Trade Name: ULTRA LOW SULFUR DIESEL FUEL # 2

Signal Word: Warning



Hazard Statements:

H227: Combustible liquid.

H304: May be fatal if swallowed and enters airways.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

H402: Harmful to aquatic life.

Precautionary Statements:

P261: Avoid breathing dust / fume / gas / mist / vapors / spray.

P281: Wear protective equipment as required.

P301 + 310: IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P331: Do NOT induce vomiting.

3. Composition / Information on Ingredients

CAS Number: Not applicable to mixtures

EC Number: Not applicable to mixtures

Index Number: Not applicable to mixtures

Molecular Weight: Not applicable to mixtures

Ingredient	CAS Number	Percent	Hazardous	Chemical Characterization
Fuel, Diesel	68476-34-6	99%	Yes	Substance
Polycyclic Hydrocarbons	08-007-452	< 1%	Yes	Substance

4. First-aid Measures

Inhalation: Remove from vapor to fresh air. If breathing has stopped, give artificial respiration. Get medical immediately.

Ingestion: DO NOT INDUCE VOMITING or give anything by mouth to an unconscious person. If more than 1 mg/kg of petroleum distillates are swallowed, remove by gastric ravage by qualified medical personnel. If vomiting occurs, keep person's head lower than hips to help prevent pulmonary aspiration. After vomiting stops, give 30-60 ml of Fleet's Phosphor-Soda diluted 1:4 in water. Get medical attention immediately.

Skin Contact: Remove contaminated clothing. Wipe off excess oil with a dry cloth and then wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15-20 minutes.) If irritation develops, seek medical aid.

Eye Contact: Check for and remove any contact lenses. Flush eyes immediately with large amounts of water, occasionally lifting upper and lower lids until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention if symptoms occur.

5. Fire-fighting Measures

Fire: Flammable Liquid and Vapor!

Explosion: Do not mix or store with strong oxidants. Do not store or pour near sources of ignition. Do not pressurize, cut, heat, weld, or expose empty containers to sources of ignition. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back.

Fire Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, and for larger fires, Water Spray, Fog, or Foam.

Special Information: Use supplied-air breathing equipment for enclosed areas. Cool exposed containers with water spray. Continue water spray until entire container contents are cool. Withdraw immediately in the event of rising sound from venting safety device or any discoloration of storage tank due to fire (subject to the fire chief's directions.)

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment as per Section 8.

Environmental Precautions and Methods and Materials for Containment and Cleaning Up: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Observe local, state and federal governmental spill and water quality regulations.

If properly trained, proceed with the following measures:

1. For small spills: Stop leak if without risk. Move containers from spill area. take up with sand or other absorbent material and place into containers for alter disposal.
2. For large spills: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Dike far ahead of spill to prevent entrance into watercourses and / or ground water.

Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling and Storage

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities:

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. 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. Do not reuse container.

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. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits:

ACGIH Threshold Limit Value (TWA): 100 mg/m³ (measured as total hydrocarbons) 8 h (skin)

Ventilation System: 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): A respirator is not needed under normal and intended conditions of use. If the exposure limit is exceeded and engineering controls are not feasible, use a mask with an organic vapor cartridge or positive pressure air supplied (SCBA) unit. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29CFR1910.134).

Skin Protection: Gloves – Neoprene, PVC. Disposable outer garments or impervious garments of equal or greater protection should be worn.

Eye Protection: Use chemical safety goggles and / or a full face shield where splashing is possible.

Hygiene Measures: 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and Chemical Properties

Appearance: Clear, slightly viscous liquid

Odor: Gasoline-like, diesel fuel odor

Odor Threshold: Not determined
pH: No information found
% Volatiles by volume @ 21C (70F): Greater than 50%
Melting Point: Not determined
Boiling Point / Boiling Range: 200 - 350C (392 - 662F) at 1,013 hPa (750 mm Hg)
Flash Point: 50 - 80C (122 - 176F) Closed Cup
Evaporation Rate (BuAC=1): Not determined
Flammability: Combustible
Upper / Lower Flammability or Explosive Limits: Upper - 10.0 / Lower - 0.6
Vapor Pressure (mm Hg): 1 mm Hg @ 20C (68F)
Vapor Density (Air=1): Greater than 5
Relative Density: 0.86
Solubility: Insoluble
Partition Coefficient: n-octanol / water: Not determined
Auto-ignition Temperature: > 260C (500F)
Decomposition Temperature: Not determined
Viscosity: Not determined

10. Stability and Reactivity

Reactivity and / or Chemical Stability: Stable under ordinary conditions of use and storage at normal temperatures and pressures.

Possibility of Hazardous Reactions and Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

Incompatible Materials: Reactive or incompatible with oxidizing materials.

Hazardous Decomposition Products: Thermal decomposition may release various hydrocarbons and hydrocarbon derivatives including carbon dioxide, water, organic acids, and aldehydes.

11. Toxicological Information

Emergency Overview: WARNING! COMBUSTIBLE. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. HARMFUL IF INGESTED. ASPIRATION HAZARD.

Combustible liquid. 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. Wash thoroughly after handling.

Potential Health Effects:

Inhalation: Mist or vapor may cause respiratory tract irritation. CNS depressant. High levels may cause giddiness, headache, dizziness, nausea, vomiting, and loss of coordination, narcosis, stupor, coma, and unconsciousness.

Ingestion: Irritation, giddiness, vertigo, headache, anesthetic stupor, CNS depression, coma and death.

Skin Contact: Drying, cracking, and defatting dermatitis. Direct contact may cause extreme irritation with severe erythema and edema with blistering and open sores. Absorption of large amounts may result in narcosis.

Eye Contact: Moderately irritating to eyes.

Chronic Exposure:

Inhalation: Prolonged exposure may cause dizziness, weakness, weight loss, anemia, nervousness, and pain in the limbs, peripheral numbness, and paresthesia. Renal failure possible. Degenerative changes of liver and kidneys may occur after prolonged exposure to high concentrations.

Skin Contact: Repeated or prolonged exposure may cause irritation, dermatitis, and a rash of pimples and spots.

Carcinogenicity:

For Fuel, Diesel:

ACGIH: A3 - Animal carcinogen. "Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure."

IARC: 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: This product is not reported to have any reproductive toxicity effects.

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:) May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:) No data available.

Aspiration Respiratory Organs Hazard: The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs,) severe lung damage, respiratory failure and even death.

Acute Toxicity: Oral LD50: > 5000 mg/kg (rat)

12. Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects. 96 h LC50 Pimephales promelas - 35 mg/L (flow-through)

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

Other adverse effects: No information available

13. Disposal Considerations

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

14. Transport Information

Packing Group: III



Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)

UN Number: UN1993

UN Proper Shipping Name: COMBUSTIBLE - LIQUID, N.O.S. (FUEL, DIESEL)

Transport Hazard Class(es): Combustible Liquid

Maritime Transport IMDG/GGVSea**UN Number:** UN1202**UN Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (FUEL, DIESEL)

Not regulated if flashpoint is > 60C

Transport Hazard Class(es): 3**Marine Pollutant:** Yes**Air Transport ICAO-TI and IATA-DGR****UN Number:** UN1202**UN Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (FUEL, DIESEL)

Not regulated if flashpoint is > 60C

Transport Hazard Class(es): 3**Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code****Special Precautions for User:** No additional information**15. Regulatory Information****HCS Classification:** Combustible liquid
Carcinogen**U.S. Federal Regulations:** **TSCA 4(a) final test rules:** No products listed.
TSCA 8(a) PAIR: No products listed.
United States inventory (TSCA 8b): All components are listed or exempted.
TSCA 12(b): No products listed.
SARA 302/304/311/312 extremely hazardous substances: No products listed.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products listed.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
No products listed.
Clean Water Act (CWA) 307: Ethylbenzene
Clean Water Act (CWA) 311: Ethylbenzene
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products listed.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.**SARA 313** **Form R – Reporting Requirements and Supplier Notification:** No products listed.
SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS 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 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: None of the components are listed.
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: Diesel Fuel
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: None of the components are listed.
New York Toxic Chemical Release Reporting: None of the components are listed.

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

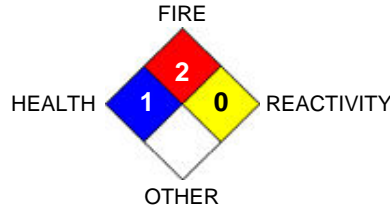
California Prop. 65	Cancer	Reproductive	No significant Risk Level	Maximum Acceptable Dosage Level
Ingredient Name Ethylbenzene	Yes	No	No	No

International Lists: This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969.)

16. Other Information

HMIS / NFPA Hazard Rating:

- 4=EXTREME
- 3= SERIOUS
- 2= MODERATE
- 1=SLIGHT
- 0=MINIMAL



Effective Date: 11/01/13 – Standardized for GHS and REACH
Previous Revisions: 11/02, 06/05, 10/08, 1/11

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