

SINCLAIR

MATERIAL SAFETY DATA SHEET

SINCLAIR DIESEL MSDS No. 58

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name (Used on Label): Diesel
Description: Diesel
Synonyms: Diesel, Distillate, Cycle Oil, Fuel Oil, Diesels Cycle Oil, Furnace Oil
Chemical Family: Liquid Hydrocarbons

EMERGENCY TELEPHONE: CHEMTREC - (800) 424-9300 or (703) 527-3887 (collect)
SUPPLIER: Sinclair Oil Corporation
 P. O. Box 30825
 Salt Lake City, Utah 84130

TELEPHONE: (888) 340-3466
FAX: (801) 524-2740

2. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Registry Number: #1 Diesel 8008-20-6
 #2 Diesel 68476-34-6

COMPOSITION COMMENTS:

	<u>Typical wt.%</u>	<u>CAS Registry #</u>
<u>#1 Diesel</u>		
Toluene	0-0.5	108-88-3
Naphthalene	0-0.5	91-20-3
<u>#2 Diesel</u>		
Toluene	0-0.5	108-88-3
Naphthalene	0-0.5	91-20-3

EXPOSURE GUIDELINES:

<u>COMPONENTS</u>	<u>OSHA</u>		<u>ACGIH</u>		<u>UNIT</u>
	<u>TWA</u>	<u>STEL</u>	<u>CEILING</u>	<u>TWA</u>	
Toluene	200		300		ppm
Naphthalene	10			10	15
Petroleum Distillates (Naphtha)			500		ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Colorless, red, blue, or amber liquid with kerosene odor. May cause eye, skin and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS:

Trauma and burns secondary to explosions and fires can result. In enclosed spaces, oxygen may be displaced by vapors or consumed by combustion. Incomplete combustion will produce carbon monoxide and other toxic gases.

INHALATION:

Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness and other central nervous system effects.

EYE CONTACT:

Contact may cause eye irritation. Naphthalene vapor causes eye irritation.

SKIN CONTACT:

Contact may irritate or burn skin. Absorption through the skin may cause symptoms of intoxication, followed by kidney damage.

INGESTION:

If aspirated (liquid enters lung) following ingestion, severe lung irritation and pulmonary edema (swelling of lung tissue) may occur. Aspiration may also result in central nervous system depression or excitement. Serious permanent lung damage may result. Nausea, vomiting, diarrhea, and abdominal pain may occur following ingestion.

4. FIRST AID MEASURES

Remove all clothing impregnated with material immediately. Consult a physician for major exposures of inhalation or skin contact.

INHALATION:

Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance. If breathing stops, use mouth-to-mouth resuscitation.

EYE CONTACT:

Flush immediately with water for at least 15 minutes minimum. Seek medical attention promptly.

SKIN CONTACT:

Discard contaminated leather articles. Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INGESTION:

DO NOT INDUCE VOMITING. Get medical assistance promptly. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.)

5. FIRE FIGHTING MEASURES

Flashpoint and Method:	100° F Minimum
Flammable Limits:	LEL - 1.3 UEL - 6
Autoignition Temperature:	490 ⁰ - 545° F

GENERAL HAZARD:

Incomplete burning can produce carbon monoxide. Vapors will be released above flash point and when mixed with air, can burn or explode in confined space if exposed to sources of ignition.

FIRE FIGHTING INSTRUCTIONS:

Use foam, dry chemical, CO₂, water fog or vaporizing liquid (Halon). Keep personnel removed from and up-wind of fire. Cool adjacent structures and storage drums with water spray. Evacuate area. Prevent runoff from fire control dilution from entering streams or drinking water supply.

FIRE FIGHTING EQUIPMENT:

Use of SCBA in enclosed or confined spaces, or as otherwise needed. Bunker gear.

HAZARDOUS COMBUSTION PRODUCTS:

May produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Shut off and eliminate all ignition sources. Keep people away. Remove leaking containers to a safe area. Contain and remove by mechanical means. Add sand, earth or other suitable absorbent to spill area than scrape off the ground. Guard against contamination of water supplies. Report spills to appropriate authorities. Dispose of in accordance with Federal, State and Local regulations.

WATER SPILL:

Spill may be removed from water with mechanical dredges or lifts. Report spills to appropriate authorities. Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

GENERAL:

Ground and bond all transfer and storage equipment. Drums must be grounded/ bonded/ equipped with self- closing valves, pressure vacuum bungs and flame arrestors. Store away from ignition sources in a cool area. Outside or detached storage is preferred.

When handling use non-sparking tools and equipment. Do not use as a cleaner or solvent, use only as fuel. Do not siphon by mouth.

8. ENGINEERING CONTROLS, RESPIRATORY & PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide ventilation sufficient to prevent exceeding recommended exposure limit or build-up of explosive concentrations of vapor in air. Use explosion-proof equipment.

PERSONAL PROTECTION:

RESPIRATOR:

Approved respiratory protection must be used when vapors or mist concentrations are unknown or exceed the TLV. Avoid prolonged or repeated breathing of vapor or mists.

PROTECTIVE CLOTHING:

Use full-face shield, chemical goggles, impervious gloves, boots and whole body protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: < 1 PSIA	Vapor Density: >1
Specific Gravity: 0.75 - 0.90	(Air = 1)
Solubility in Water: No	Freezing Point: 0° F
pH: N/A	Appearance: colorless, red, blue or amber
Boiling Point: 550° F	Physical State: Liquid

10. STABILITY AND REACTIVITY

GENERAL:

This product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids, alkalis and oxidizers. Avoid heat, sparks, flame and static electricity.

HAZARDOUS DECOMPOSITION:

Incomplete burning can produce carbon monoxide

11. TOXICOLOGICAL INFORMATION

SYSTEMIC:

Petroleum-derived fuels and fuel oils are complex and variable mixtures of hydrocarbons. In general, the more viscous the mixture, the less toxic it will be. At high level exposures, humans experience multiple organ failures, some of which may be due to hypoxia and secondary to the failure of other organ systems. In humans kidney failure has been noted only at high, acute levels of exposures, and appears reversible. Liver enzymes may be transiently elevated. At lower level exposures, most acute health effects are reversible. People can be exposed by inhalation, ingestion and dermal contact. Frequently, people are exposed by combined dermal and inhalation exposure.

ACUTE:

Inhalation: Headaches, confusion, disorientation, blurred vision occur with inhalation. Higher exposures may cause hallucinations, CNS excitation, drowsiness, CNS depression. Seizure and coma occur from very high exposures and death may result from respiratory depression. ECG changes, cardiac arrhythmias, tachycardia, shock and cardiovascular collapse can occur. Pneumonia, pulmonary edema and hemorrhages can occur.

Inhalation of 8000-16000 mg/m³ for 2 to 4 hours was lethal to rats.

Ingestion: Central nervous system, cardiovascular, and respiratory effects have been reported with acute exposures to various hydrocarbon fuels and oils similar to those reported with inhalation. Nausea, vomiting, cramping and diarrhea may occur.

Eye: Conjunctivitis and burning, watery eyes have been reported in acute exposures to various hydrocarbon fuels and oils.

Skin: Mild erythema to full thickness chemical burns have occurred after prolonged exposure to various hydrocarbon fuels and oils.

Chronic:

Chronic dermatitis with acanthosis, inflammation, parakeratosis and hyperkeratosis have occurred with chronic exposures to various hydrocarbon fuels and oils.

Occupational exposures in petroleum refining are considered Group 2A (probably carcinogenic) by IARC.

12. DISPOSAL CONSIDERATIONS

RCRA: Disposal of this product or material contaminated with this product may be regulated by RCRA due to the characteristic of ignitability.

EPA Hazard Class: Acute Hazard/Chronic Hazard/Fire Hazard

Dispose of in accordance with Federal, State, and Local regulations.

13. TRANSPORT INFORMATION

DOT (Department of Transportation):

PROPER SHIPPING NAME: Combustible Liquid nos (Diesel #1, Diesel #2)

HAZARD CLASS: Combustible Liquid

IDENTIFICATION NUMBER: UN 1993 PG III

NAERG96 NUMBER: 128

14. REGULATORY INFORMATION

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act):

Naphthalene and Toluene are hazardous substances under CERCLA and therefore are subject to emergency notification requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act): Naphthalene and Toluene are subject to SARA Title III, Sections 311 and 312, which require MSDS reporting and hazardous chemical inventory reporting.

Naphthalene and Toluene are also subject to SARA Title III, Section 313, which requires chemical release reporting.

15.OTHER INFORMATION

NFPA 704/HMIS

Health - 0 Flammability - 2 Reactivity - 0
(0=insignificant, 1=slight, 2=moderate, 3=high, 4=extreme)
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REVISION SUMMARY:
Complete review of MSDS, December 2002.

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT SHOULD BE USED IN APPLICATIONS CONSISTENT WITH THIS PRODUCT LITERATURE. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS

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DATE:

July 2004

SUPERSEDES:

July 2003

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