

EXPORT FUEL ✓



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: HWY DIESEL 2

Manufacturer Information:
Sunoco, Inc. (R&M)
Ten Penn Center
1801 Market Street
Philadelphia, Pennsylvania, 19103-1699

Product Use: Diesel fuel

Emergency Phone Numbers:
Chemtrec (800) 424-9300
Sunoco Inc. (800) 964-8861

Information:
Product Safety Information (610) 859-1120

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
#2 DIESEL HIGHWAY	68476-34-6	100 - 100
XYLENE	1330-20-7	0 - 0.8
TOLUENE	108-88-3	0 - 0.4
BENZENE	71-43-2	0 - 0.2
ETHYL BENZENE	100-41-4	0 - 0.2
CUMENE	98-82-8	0 - 0.1
N-HEXANE	110-54-3	0 - 0.04

EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

	CAS No.	Governing Body	Exposure Limits
Limit for the product	68476-34-6	ACGIH	TWA 100 mg/m3
BENZENE	71-43-2	ACGIH	STEL 2.5 ppm
BENZENE	71-43-2	OSHA	STEL 5 ppm
BENZENE	71-43-2	ACGIH	TWA 0.5 ppm
BENZENE	71-43-2	OSHA	TWA 1 ppm
CUMENE	98-82-8	ACGIH	TWA 50 ppm
CUMENE	98-82-8	OSHA	TWA 50 ppm
ETHYL BENZENE	100-41-4	ACGIH	STEL 125 ppm
ETHYL BENZENE	100-41-4	ACGIH	TWA 100 ppm
ETHYL BENZENE	100-41-4	OSHA	TWA 100 ppm
N-HEXANE	110-54-3	ACGIH	TWA 50 ppm
N-HEXANE	110-54-3	OSHA	TWA 500 ppm
TOLUENE	108-88-3	OSHA	C 300 ppm

TOLUENE	108-88-3	NIOSH	STEL	150	ppm
TOLUENE	108-88-3	ACGIH	TWA	50	ppm
TOLUENE	108-88-3	OSHA	TWA	200	ppm
XYLENE	1330-20-7	ACGIH	STEL	150	ppm
XYLENE	1330-20-7	ACGIH	TWA	100	ppm
XYLENE	1330-20-7	OSHA	TWA	100	ppm
#2 DIESEL HIGHWAY	68476-34-6	ACGIH	TWA	100	mg/m3
#2 DIESEL HIGHWAY	68476-34-6	Sunoco	TWA	100	ppm

3. HAZARDS IDENTIFICATION

• EMERGENCY OVERVIEW

Warning! Combustible liquid and vapor. Harmful if inhaled. Harmful if absorbed through skin. Harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage. Can cause severe chronic toxicity. May cause headaches and dizziness. Possible cancer hazard.

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>PPI</u>
NFPA	0	2	0	
HMIS	0	2	0	x

• POTENTIAL HEALTH EFFECTS

§ PRE-EXISTING MEDICAL CONDITIONS

The following diseases or disorders may be aggravated by exposure to this product: Skin; Eye; Nervous system, Respiratory system; Lung (asthma-like conditions);

§ INHALATION

Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract. May cause headaches and dizziness. Repeated excessive exposures may cause blood disorders such as anemia and leukemia. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness and even death).

LC50 (mg/l): No data

LC50 (mg/m3): No data

LC50 (ppm): No data

§ SKIN

May be absorbed through the skin in harmful amounts. Contains a material that has caused skin tumors in laboratory animals. Causes severe skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Draize Skin Score: 6.9 out of 8.0

LD50 (mg/kg): No data

§ EYES

Mildly irritating to the eyes.

§ INGESTION

Product may be harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage.

LD50 (g/kg): No data

4. FIRST AID MEASURES

• INHALATION

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

- **SKIN**

Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing before reuse. Destroy contaminated shoes and other leather products.

- **EYES**

Flush eye with water for 15 minutes. Get medical attention.

- **INGESTION**

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

- **EXTINGUISHING MEDIA**

Water spray; Regular foam; Dry chemical; Carbon dioxide;

- **FIRE FIGHTING INSTRUCTIONS**

Use water spray to cool fire exposed tanks and containers. Water or foam may cause frothing. Wear structural fire fighting gear. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point				> 135	F	PMCC
Autoignition Temperature	500				F	N/A
Lower Explosion Limit				No data	%	N/A
Upper Explosion Limit				No data	%	N/A

6. ACCIDENTAL RELEASE MEASURES

Prevent ignition, stop leak and ventilate the area. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

7. HANDLING AND STORAGE

- **HANDLING**

Use only in a well-ventilated area. Ground and bond containers when transferring material. Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

- **STORAGE**

Keep away from heat, sparks, and flame. Keep container closed when not in use. NFPA class IIIA storage. Flash point is greater than 140 degrees F and less than 200 degrees F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult With a Health and Safety Professional for Specific Selections

- **ENGINEERING CONTROLS**

Use with adequate ventilation. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

- **PERSONAL PROTECTION**

- § **EYE PROTECTION**

Splash proof chemical goggles are recommended to protect against the splash of product.

§ **GLOVES or HAND PROTECTION**

Protective gloves are recommended when prolonged skin contact cannot be avoided. The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Polyvinyl chloride (PVC); Neoprene; Nitrile; Polyvinyl alcohol; Viton;

§ **RESPIRATORY PROTECTION**

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Respiratory protection is not usually needed unless product is heated or misted.. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

§ **OTHER**

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Polyvinyl chloride (PVC); Neoprene; Nitrile; Viton; Polyurethane; Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Property	Typical	Units	Text Result	Reference
Appearance		other	Lt Amber Liquid	
Boiling Point		F		
Bulk Density		lb/gal	No data	
Melting Point		F	No data	
Molecular Weight		g/mole	No data	
Octanol/Water Coefficient		other	No data	
pH		other	No data	
Specific Gravity	0.87	other		
Solubility In Water		wt %	Nil	
Odor		other	Kerosene-like	
Odor Threshold		other	No data	
Vapor Pressure	1.6	mmHg		
Viscosity (F)		other	No data	
Viscosity (C)	1.9	CsT		
% Volatile	100	wt %		

10. STABILITY AND REACTIVITY

• **STABILITY**

Stable

• **CONDITIONS TO AVOID**

Avoid heat, sparks and open flame.

• **INCOMPATIBILITY**

Cutting oil Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.

• **HAZARDOUS POLYMERIZATION**

Will not polymerize.

11. ECOLOGICAL INFORMATION

No data available

12. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. This material is a RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

13. TRANSPORT INFORMATION

<u>Governing Body</u>	<u>Mode</u>	<u>Proper Shipping Name</u>
IATA	Air	Not Determined
DOT	Ground	Fuel Oil

<u>Governing Body</u>	<u>Mode</u>	<u>Hazard Class</u>	<u>UN/NA No.</u>	<u>Label</u>
IATA	Air	Not Determined		
DOT	Ground	Combustible Liquid	NA1993	

14. REGULATORY INFORMATION

<u>Regulatory List</u>	<u>Component</u>	<u>CAS No.</u>
Inventory - Canada - Domestic Substances List	HWY DIESEL 2	68476-34-6
Inventory - European EINECS Inventory	HWY DIESEL 2	68476-34-6
Inventory - Korea - Existing and Evaluated	HWY DIESEL 2	68476-34-6
Inventory - TSCA - Sect. 8(b) Inventory	HWY DIESEL 2	68476-34-6
ACGIH 2000 - Short Term Exposure Limits	BENZENE	71-43-2
ACGIH 2000 - Short Term Exposure Limits	ETHYL BENZENE	100-41-4
ACGIH 2000 - Short Term Exposure Limits	XYLENE	1330-20-7
ACGIH 2000 - Skin Absorption Designation	BENZENE	71-43-2
ACGIH 2000 - Skin Absorption Designation	N-HEXANE	110-54-3
ACGIH 2000 - Skin Absorption Designation	TOLUENE	108-88-3
ACGIH 2000 - Time Weighted Averages	BENZENE	71-43-2
ACGIH 2000 - Time Weighted Averages	CUMENE	98-82-8
ACGIH 2000 - Time Weighted Averages	ETHYL BENZENE	100-41-4
ACGIH 2000 - Time Weighted Averages	N-HEXANE	110-54-3
ACGIH 2000 - Time Weighted Averages	TOLUENE	108-88-3
ACGIH 2000 - Time Weighted Averages	XYLENE	1330-20-7
CAA - 1990 Hazardous Air Pollutants	BENZENE	71-43-2
CAA - 1990 Hazardous Air Pollutants	CUMENE	98-82-8
CAA - 1990 Hazardous Air Pollutants	ETHYL BENZENE	100-41-4
CAA - 1990 Hazardous Air Pollutants	N-HEXANE	110-54-3
CAA - 1990 Hazardous Air Pollutants	TOLUENE	108-88-3
CAA - 1990 Hazardous Air Pollutants	XYLENE	1330-20-7
California - Prop. 65 - Cancer list	BENZENE	71-43-2
California - Prop. 65 - Developmental Toxicity	BENZENE	71-43-2
California - Prop. 65 - Developmental Toxicity	TOLUENE	108-88-3
Canada - WHMIS: Ingredient Disclosure	BENZENE	71-43-2
Canada - WHMIS: Ingredient Disclosure	CUMENE	98-82-8
Canada - WHMIS: Ingredient Disclosure	ETHYL BENZENE	100-41-4
Canada - WHMIS: Ingredient Disclosure	N-HEXANE	110-54-3
Canada - WHMIS: Ingredient Disclosure	TOLUENE	108-88-3
CERCLA/SARA - Haz Substances and their RQs	BENZENE	71-43-2
CERCLA/SARA - Haz Substances and their RQs	CUMENE	98-82-8
CERCLA/SARA - Haz Substances and their RQs	ETHYL BENZENE	100-41-4

CERCLA/SARA - Haz Substances and their RQs
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 CERCLA/SARA - Section 313 - Emission Reporting
 IARC - Group 1 (carcinogenic to humans)
 IARC - Group 2B (Possibly carcinogenic to humans)
 Inventory - Canada - Domestic Substances List
 Inventory - European EINECS Inventory
 Inventory - Japan - (ENCS)
 Inventory - Korea - Existing and Evaluated
 Inventory - TSCA - Sect. 8(b) Inventory
 Massachusetts Right To Know List
 New Jersey - Department of Health RTK List
 New Jersey - Special Hazardous Substances
 New Jersey - Special Hazardous Substances

N-HEXANE 110-54-3
 TOLUENE 108-88-3
 XYLENE 1330-20-7
 BENZENE 71-43-2
 CUMENE 98-82-8
 ETHYL BENZENE 100-41-4
 N-HEXANE 110-54-3
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 CUMENE 98-82-8
 ETHYL BENZENE 100-41-4
 N-HEXANE 110-54-3
 TOLUENE 108-88-3

New Jersey - Special Hazardous Substances
 NJ Environmental Hazardous Substances List
 NTP Ninth Report - Known Carcinogens
 OSHA - Final PELs - Ceiling Limits
 OSHA - Final PELs - Ceiling Limits
 OSHA - Final PELs - Time Weighted Averages
 Pennsylvania Right to Know List
 TSCA - Sect. 12(b) - Export Notification

XYLENE	1330-20-7
BENZENE	71-43-2
CUMENE	98-82-8
ETHYL BENZENE	100-41-4
N-HEXANE	110-54-3
TOLUENE	108-88-3
XYLENE	1330-20-7
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ETHYL BENZENE	100-41-4
N-HEXANE	110-54-3
TOLUENE	108-88-3
XYLENE	1330-20-7
N-HEXANE	110-54-3

Title III Classifications Sections 311,312:

- Acute: **YES**
- Chronic: **YES**
- Fire: **YES**
- Reactivity: **NO**
- Sudden Release of Pressure: **NO**

15. OTHER INFORMATION

Follow all MSDS/label precautions even after container is emptied because it may retain product residue.