

# Material Safety Data Sheet



## 1. Product and company identification

**Product name** DIESEL FUEL NO. 1  
**MSDS #** 11154  
**Code** 11154  
**Product use** Fuel.  
**Synonyms** Ultra Low Sulfur No.1 Diesel Fuel, Low Sulfur No.1 Diesel Fuel, Amoco Diesel Fuel No.1  
**Supplier** BP Products North America Inc.  
150 West Warrenville Road  
Naperville, Illinois 60563-8460  
USA  
**EMERGENCY HEALTH INFORMATION:** 1 (800) 447-8735  
Outside the US: +1 703-527-3887 (CHEMTREC)  
**EMERGENCY SPILL INFORMATION:** 1 (800) 424-9300 CHEMTREC (USA)  
**OTHER PRODUCT INFORMATION** 1 (866) 4 BP - MSDS  
(866-427-6737 Toll Free - North America)  
email: bpcares@bp.com

## 2. Hazards identification

**Physical state** Liquid.  
**Color** Colorless. to Various colors. (May be dyed Red., Light Green. ,Yellow. )  
**Emergency overview** WARNING !  
COMBUSTIBLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FLASH FIRE.  
HARMFUL IF SWALLOWED.  
ASPIRATION HAZARD.  
HARMFUL OR FATAL IF LIQUID IS ASPIRATED INTO LUNGS.  
CAUSES SKIN IRRITATION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS, AND NAUSEA, AND MAY LEAD TO UNCONSCIOUSNESS.  
Combustible liquid. Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. If ingested, do not induce vomiting. Avoid contact with eyes, skin and clothing. Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.  
**Routes of entry** Dermal contact. Eye contact. Inhalation. Ingestion.  
**Potential health effects**  
**Eyes** Slightly irritating to the eyes.  
**Skin** Causes skin irritation.  
**Inhalation** May cause respiratory tract irritation. Inhalation causes headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness. See toxicological information (section 11)  
**Ingestion** Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. See toxicological information (section 11)

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### 3. Composition/information on ingredients

Ingredient name	CAS #	%
Petroleum distillates	8008-20-6	95 - 100
Contains one or more of the following biodiesels:	Varies	0 - 5
soybean oil, me ester	67784-80-9	.
Fatty acids, sunflower-oil, Me esters	68919-54-0	.
Fatty acids methyl esters	67762-38-3	.
Fatty acids, vegetable-oil, Methyl esters	68990-52-3	.
rape oil, me ester	73891-99-3	.
Fatty acids, canola-oil, Me esters	129828-16-6	.
fatty acids, tallow, me esters	61788-61-2	.
Contains:		
Naphthalene	91-20-3	1 - 3
May also contain small quantities of proprietary performance additives.		

### 4. First aid measures

<b>Eye contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention
<b>Skin contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Clean shoes thoroughly before reuse. Wash contaminated clothing before reuse. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>Ingestion</b>	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. Fire-fighting measures

<b>Flammability of the product</b>	Combustible liquid.
<b>Auto-ignition temperature</b>	210°C (410°F)
<b>Flash point</b>	Closed cup: >38°C (>100.4°F) [Pensky-Martens.]
<b>Explosion limits</b>	Lower: 0.6% Upper: 7.5%
<b>Fire/explosion hazards</b>	Combustible liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
<b>Unusual fire/explosion hazards</b>	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
<b>Extinguishing media</b>	
<b>Suitable</b>	In case of fire, use water fog, foam, dry chemicals, or carbon dioxide.
<b>Not suitable</b>	Do not use water jet.
<b>Fire-fighting procedures</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Hazardous combustion products</b>	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
<b>Protective clothing (fire)</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Special remarks on fire hazards</b>	Do not use water jet.

## 6. Accidental release measures

**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).

**Personal protection in case of a large spill** Chemical splash goggles. Chemical-resistant protective suit. Boots. Chemical-resistant gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product. CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.

### Methods for cleaning up

**Large spill** Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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.

**Small spill** Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Absorb with an inert 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.

## 7. Handling and storage

**Handling** Do not ingest. Never siphon by mouth. If ingested, do not induce vomiting. Put on appropriate personal protective equipment (see section 8). 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. 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.

**Storage** Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). 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

### Occupational exposure limits

#### Ingredient name

#### Occupational exposure limits

Petroleum distillates

**ACGIH TLV (United States). Absorbed through skin.**

TWA: 200 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 1/2003

Naphthalene

**ACGIH TLV (United States).**

STEL: 79 mg/m<sup>3</sup> 15 minute(s). Issued/Revised: 5/1996

STEL: 15 ppm 15 minute(s). Issued/Revised: 5/1996

TWA: 52 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 5/1996

TWA: 10 ppm 8 hour(s). Issued/Revised: 5/1996

**OSHA PEL (United States).**

TWA: 50 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 6/1993

TWA: 10 ppm 8 hour(s). Issued/Revised: 6/1993

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Some states may enforce more stringent exposure limits.

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<b>Control Measures</b>	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.
<b>Hygiene measures</b>	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.
<b>Personal protection</b>	
<b>Eyes</b>	Avoid contact with eyes. Safety glasses with side shields.
<b>Skin and body</b>	Avoid contact with skin and clothing. Wear suitable protective clothing.
<b>Respiratory</b>	Use adequate ventilation. Do not breathe vapor or mist. If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.  CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.
<b>Hands</b>	Wear gloves that cannot be penetrated by chemicals or oil.  The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.  Consult your supervisor or Standard Operating Procedure (S.O.P) for special handling instructions.

## 9. Physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Color</b>	Colorless. to Various colors. (May be dyed Red., Light Green. ,Yellow. )
<b>Odor</b>	Petroleum
<b>Flash point</b>	Closed cup: >38°C (>100.4°F) [Pensky-Martens.]
<b>Explosion limits</b>	Lower: 0.6% Upper: 7.5%
<b>Auto-ignition temperature</b>	210°C (410°F)
<b>Specific gravity</b>	<1 [Water = 1]
<b>Density</b>	815 to 840 kg/m <sup>3</sup> (0.815 to 0.84 g/cm <sup>3</sup> )
<b>Viscosity</b>	Kinematic: 1.3 to 2.4 mm <sup>2</sup> /s (1.3 to 2.4 cSt) at 40°C

## 10. Stability and reactivity

<b>Stability and reactivity</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).
<b>Incompatibility with various substances</b>	Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. halogenated compounds.
<b>Hazardous decomposition products</b>	carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
<b>Hazardous polymerization</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.

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## 11. Toxicological information

### Acute toxicity

#### Classification

Product/ingredient name	IARC	NTP	OSHA
Naphthalene	2B	Possible	-

IARC :  
2B - Possible carcinogen to human.

NTP :  
Possible - Reasonably anticipated to be human carcinogens.

**Other information**      Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.

Middle distillate: From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests, the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact with this product in the absence of good personal hygiene. This particular product has not been tested for carcinogenic activity, but we have chosen to be cautious in light of the findings with other distillate streams.

Occasional skin contact with this product is not expected to have serious effects, but good personal hygiene should be practiced and repeated skin contact avoided. This product can also be expected to produce skin irritation upon prolonged or repeated skin contact. Personal hygiene measures taken to prevent skin irritation are expected to be adequate to prevent risk of skin cancer.

Diesel exhaust particulates have been classified by the National Toxicological Program (NTP) to be a reasonably anticipated human carcinogen. Exposure should be minimized to reduce potential risk.

Naphthalene has been reported to cause developmental toxicity in mice after oral exposure to relatively high dose levels, but developmental toxicity was not observed in NTP (National Toxicology Program) sponsored studies in rats and rabbits. Ingestion or inhalation of naphthalene can result in hemolysis and other blood abnormalities, and individuals (and infants) deficient in glucose-6-phosphate dehydrogenase may be especially susceptible to these effects. Inhalation of naphthalene may cause headache and nausea. Airborne exposure can result in eye irritation. Naphthalene exposure has been associated with cataracts in animals and humans.

### Potential chronic health effects

**Carcinogenicity**      Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

## 12. Ecological information

### Ecotoxicity

No testing has been performed by the manufacturer.

**Mobility**      Spillages may penetrate the soil causing ground water contamination.

**Bioaccumulative potential**      This product is not expected to bioaccumulate through food chains in the environment.

**Other ecological information**      Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

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## 13. Disposal considerations

### Waste information

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 of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal**

## 14. Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	NA 1993	Diesel fuel	3	III	-
TDG Classification	UN 1202	Gas oil	3	III	-
IMDG Classification	UN 1202	Gas oil	3	III	<b>Remarks</b> Marine pollutant
IATA/ICAO Classification	UN 1202	Gas oil	3	III	<b>Remarks</b> Environmentally hazardous substance mark.

## 15. Regulatory information

### U.S. Federal Regulations

United States inventory (TSCA 8b)

All components are listed or exempted.

TSCA 12(b) one-time export: Naphthalene

**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:** Straight run kerosene; Naphthalene

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** DIESEL FUEL NO. 1: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

### SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Naphthalene	91-20-3	1.0001 - 3.0034
Supplier notification	Naphthalene	91-20-3	1.0001 - 3.0034

**CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):**

CERCLA: Hazardous substances.: o-Xylene: 1000 lbs. (454 kg); Naphthalene: 100 lbs. (45.4 kg); benzo[def]chrysene: 1 lb. (0.454 kg); Ethylbenzene: 1000 lbs. (454 kg); xylene: 100 lbs. (45.4 kg); Cumene: 5000 lbs. (2270 kg); Phenol: 1000 lbs. (454 kg); Toluene: 1000 lbs. (454 kg); Methanol: 5000 lbs. (2270 kg); Benzene: 10 lbs. (4.54 kg); Alkylaryl sulfonic acid: 1000 lbs. (454 kg)

### State regulations

Massachusetts Substances

The following components are listed: KEROSINE; NAPHTHALENE

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New Jersey Hazardous Substances

The following components are listed: KEROSENE; FUEL OIL #1; NAPHTHALENE; MOTH FLAKES

Pennsylvania RTK Hazardous Substances

The following components are listed: KEROSINE (PETROLEUM); NAPHTHALENE

California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer. Naphthalene; Ethylbenzene; benzo[def]chrysene

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Toluene

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Benzene

Prop 65 chemicals will result under certain conditions from the use of this material. For example, burning fuels produces combustion products including diesel exhaust, a Prop 65 carcinogen, and carbon monoxide, a Prop 65 reproductive toxin.

**Inventories**

Canada inventory	Not determined.
Europe inventory	At least one component is not listed.
Australia inventory (AICS)	At least one component is not listed.
China inventory (IECSC)	Not determined.
Japan inventory (ENCS)	At least one component is not listed.
Korea inventory (KECI)	Not determined.
Philippines inventory (PICCS)	At least one component is not listed.

**16. Other information**

**Label requirements**

**WARNING !**

COMBUSTIBLE LIQUID AND VAPOR.  
 VAPOR MAY CAUSE FLASH FIRE.  
 HARMFUL IF SWALLOWED.  
 ASPIRATION HAZARD.  
 HARMFUL OR FATAL IF LIQUID IS ASPIRATED INTO LUNGS.  
 CAUSES SKIN IRRITATION.  
 MAY CAUSE RESPIRATORY TRACT IRRITATION.  
 INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS, AND NAUSEA, AND MAY LEAD TO UNCONSCIOUSNESS.

**HMIS® Rating :**

**Health** \* 1  
**Flammability** 2  
**Physical Hazard** 0  
**Personal protection** X

**National Fire Protection Association (U.S.A.)**



**History**

**Date of issue** 07/20/2010.  
**Date of previous issue** 07/20/2010.  
**Prepared by** Product Stewardship  
**Notice to reader**

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All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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