# SAFETY DATA SHEET



# Section 1. Identification

Product name Diesel Fuel No. 2
Chemical name Fuels, diesel
Other means of Heating Oil.

identification

**SDS #** 11155 **Code** 11155

Relevant identified uses of the substance or mixture and uses advised against

Product use Fuel.

**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)

# Section 2. Hazards identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the FLAMMABLE LIQUIDS - Category 3

substance or mixture ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bone marrow, liver,

thymus) - Category 2

ASPIRATION HAZARD - Category 1

**GHS label elements** 

**Hazard pictograms** 







Signal word Danger

**Hazard statements** Flammable liquid and vapor.

Harmful if inhaled. Causes skin irritation. Suspected of causing cancer.

May be fatal if swallowed and enters airways.

May cause damage to organs through prolonged or repeated exposure. (bone marrow,

liver, thymus)

**Precautionary statements** 

Prevention Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

Do not breathe vapor.

Wear protective gloves and eye protection.

Avoid release to the environment.

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# Section 2. Hazards identification

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT

induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention.

Storage Store locked up. Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label elements

Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise

classified

efatting to the skin.

This material may contain significant quantities of polycyclic aromatic hydrocarbons, some of which have been shown by experimental studies to induce skin cancer.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure

constitute a major medical emergency.

See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

# Section 3. Composition/information on ingredients

#### Substance/mixture

Mixture

May also contain small quantities of proprietary performance additives.

Ingredient name	CAS number	%
etroleum distillates (Diesel Fuel No. 2)	68476-34-6	75 - 100
Contains one or more of the following renewable diesels: Alkanes, C10-20-branched and linear	Varies 928771-01-1	0 - 20
Contains one or more of the following biodiesels: soybean oil, me ester Fatty acids, sunflower-oil, Me esters	Varies 67784-80-9 68919-54-0	0 - 5
Fatty acids methyl esters Fatty acids, vegetable-oil, Methyl esters	67762-38-3 68990-52-3	
rape oil, me ester Fatty acids, canola-oil, Me esters	73891-99-3 129828-16-6	
fatty acids, tallow, me esters Contains:	61788-61-2	
Naphthalene	91-20-3	0.0242 - 0.13

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

## **Description of necessary first aid measures**

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and

remove any contact lenses. Get medical attention.

while removing contaminated clothing and shoes. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity

that could ignite contaminated clothing. Contaminated clothing is a fire hazard.

Contaminated leather, particularly footwear, must be discarded. Clean shoes thoroughly

before reuse. Get medical attention.

**Inhalation** If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory

arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical

attention.

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# Section 4. First aid measures

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. If

unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Can enter lungs and cause damage. Get medical

attention immediately.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. 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.

#### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Featment should in general be symptomatic and directed to relieving any effects. Product can be aspirated on swallowing or following regurgitation of stomach contents. and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discolored and extremely painful with extensive subcutaneous necrosis.

Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimize tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

**Specific treatments** 

No specific treatment.

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

Unsuitable extinguishing

media

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

To not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

Specific hazards arising from the chemical

Flammable liquid and vapor. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Hazardous combustion** products

Combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

other hazardous substances.

Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective** equipment for fire-fighters Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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# Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Immediately contact emergency personnel. 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. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Eliminate all ignition sources.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

#### **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). Water polluting material. May be harmful to the environment if released in large quantities. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Collect recovered product and other contaminated materials in suitable tanks or containers for recycle, recovery or safe disposal. Collect spillage.

#### Methods and materials for containment and cleaning up

**Small spill** 

Eliminate all ignition sources. Stop leak if without risk. 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. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres.

Large spill

Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dike spill area and do not allow product to reach sewage system and surface or ground water. 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. Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Aspiration hazard if swallowed. Can enter lungs and cause damage. Never siphon by mouth. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilled material and runoff with soil and surface waterways.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. 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.

Light hydrocarbon vapors can build up in the headspace of tanks. These can cause flammability/explosion hazards even at temperatures below the normal flash point (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapor in tank headspaces). Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, ullaging and sampling from storage tanks. Do not enter storage tanks. If entry to vessels is necessary, follow permit to work procedures. Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. When the product is pumped (e.g. during filling, discharge or ullaging) and when sampling, there is a risk of static discharge. Ensure equipment used is properly earthed or bonded to the tank structure. Electrical equipment should not be used unless it is intrinsically safe (i.e. will not produce sparks). Explosive air/vapor mixtures may form at ambient temperature. If product comes into contact with hot surfaces, or leaks occur from pressurized fuel pipes, the vapor or mists generated will create a flammability or explosion hazard. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.

# Section 8. Exposure controls/personal protection

## **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
fuel, diesel no. 2	ACGIH TLV (United States). Absorbed through skin.  TWA: 100 mg/m³, (measured as total hydrocarbons) 8 hours. Issued/Revised: 1/2007 Form: Inhalable fraction and vapor
naphthalene	ACGIH TLV (United States). Absorbed through skin.  TWA: 52 mg/m³ 8 hours. Issued/Revised: 5/1996  TWA: 10 ppm 8 hours. Issued/Revised: 5/1996  OSHA PEL (United States).  TWA: 50 mg/m³ 8 hours. Issued/Revised: 6/1993  TWA: 10 ppm 8 hours. 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.

# Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national

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# Section 8. Exposure controls/personal protection

organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

# Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

**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.

# Eye/face protection Skin protection Hand protection

Chemical splash goggles.

Wear chemical resistant gloves. Nitrile gloves.

Do not re-use gloves. Protective gloves must give suitable protection against mechanical risks (i.e. abrasion, blade cut and puncture). Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

#### **Body protection**

se of protective clothing is good industrial practice.

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.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Wear suitable protective clothing. Footwear highly resistant to chemicals.

When there is a risk of ignition wear inherently fire resistant protective clothes and gloves.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static.

When the risk of skin exposure is high (from experience this could apply to the following tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required. Work clothing / overalls should be laundered on a regular basis. Laundering of contaminated work clothing should only be done by professional cleaners who have been told about the hazards of the contamination. Always keep contaminated work clothing away from uncontaminated work clothing and uncontaminated personal clothes.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## **Respiratory protection**

Use only with adequate ventilation. If ventilation is inadequate, use a NIOSH certified respirator with an organic vapor cartridge and P95 particulate filter.

If operating conditions cause high vapor concentrations or the TLV is exceeded, use NIOSH-certified, supplied-air respirator.

Use with adequate ventilation.

If there is a requirement for the use of a respiratory protective device, but the use of breathing apparatus (independent of ambient atmosphere) is not required, then a suitable filtering device must be worn.

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

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# Section 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Color Colorless. (May be dyed Red., Light Green., Yellow.)

Odor Petroleum

pH Not applicable. Based on Solubility in water (Very slightly soluble in water)

Melting point29 to -18°C (-20.2 to -0.4°F) (Based on Fuels, diesel)Boiling point160 to 390°C (320 to 734°F) (Based on Fuels, diesel)Flash pointClosed cup: ≥52°C (≥125.6°F) [Pensky-Martens.]

**Evaporation rate** Not available.

Flammability (solid, gas) Not applicable. Based on - Physical state

Lower and upper explosive (flammable) limits

Vapor pressure

Lower: 0.6%
Upper: 7.5%

Vapor 4 kPa (3 mm Hg)

Vapor density >1 [Air = 1]

Density 820 to 875 kg/m³ (0.82 to 0.875 g/cm³)

Relative density <1 [Water = 1]

**Solubility** Very slightly soluble in water (< 0.1% negligible)

Partition coefficient: noctanol/water

Wot applicable. Based on Fuels, diesel - Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this

complex substance.

Auto-ignition temperature 257°C (494.6°F)

Decomposition temperature Not observed to decompose by final boiling point: >390°C (>734°F)

Viscosity Kinematic: 1.7 to 4.1 mm<sup>2</sup>/s (1.7 to 4.1 cSt) at 40°C

# Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not occur.

reactions Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid 

Woold all possible sources of ignition (spark or flame). Avoid excessive heat.

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials, acids and

alkalis.

halogenated compounds.

Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products should

**products** not be produced.

# Section 11. Toxicological information

Information on toxicological effects

**Acute toxicity** 

Product/ingredient Test Species Result Exposure Remarks

name

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Fuels, diesel, No 2	LC50 Inhala Dusts and n			4.1 mg/l	4 ho	urs	Based on Diesel fuel
	LD50 Derma	al Rabbit		>4300 mg/	kg -		Based on No. 2 Heating Oil.
	LD50 Derma	al Rabbit		>4300 mg/	kg -		Based on Diesel fuel
	LD50 Oral	Rat		17900 mg/l	kg -		Based on No. 2 Heating Oil.
	LD50 Oral	Rat		7600 mg/kg	g -		Based on Diesel fuel
naphthalene	LC50 Inhala			>340 mg/m	n³ 1 ho	urs	-
	LD50 Derma	al Rabbit		20 g/kg	-		-
	LD50 Oral	Rat		490 mg/kg	-		-
Conclusion/Summary	Not	available.					
ritation/Corrosion Product/ingredient name	Species	Result	Score	Exposure	Observation	on Conc.	Remarks
Fuels, diesel, No 2	Rabbit	Skin - Irritation	-	-	-	-	Based on No. 2 Heating Oil.
	Rabbit	Skin - Irritation	-	-	-	-	Based on Diesel fuel
	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	Based on No. 2 Heating Oil.
	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	Based on Diesel fuel
Skin Sensitizer	<b>⊘</b> au	ses skin irritati	on.				
Product/ingredient na		oute of posure	Spec	ies	Result		Remarks
Fuels, diesel, No 2	ski		Guin	ea pig	Not sensi	tizing	Based on No. 2 Heating Oil.
	ski	n	Guin	ea pig	Not sensi	tizing	Based on Diesel fuel
<u>/lutagenicity</u> Product/ingredient na	me Test		Experim	ent	Result		Remarks
vels, diesel, No 2	OECD	471	Experime Subject:	ent: In vitro	Positive		Based on Diesel fue
	Equival 476	ent to OECD	Experime	ent: In vitro	Negative		Based on Heating Oil.
	470		Subject: Mammal Cell: Ger	ian-Animal m			Oii.
	not guid	deline	Experime	ent: In vivo	Negative		Based on Heating Oil.
			Subject: Cell: Sor	Unspecified natic			OII.
		available.					

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# Section 11. Toxicological information

Product/ingredient

name

Fuels, diesel, No 2 Equivalent 451 Mouse Dermal 2 years Positive -Based on to OECD Dermal -Heating Oil.

Unspecified

**Conclusion/Summary** 

Suspected of causing cancer.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
<b>p</b> aphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

Descriptors:

OSHA:

carcinogen

+ - Potential occupational

IARC:

NTP: 1 - Carcinogenic to human.

Proven - Known to be human

to be human carcinogens.

2A - Probable human carcinogen. carcinogens. 2B - Possible carcinogen to

Possible - Reasonably anticipated

human. 3 - Not classifiable as a human

carcinogen.

4 - Probably not a human

carcinogen.

**Carcinogenicity Additional** 

information

Not applicable.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Result	Exposure
Fuels, diesel, No 2	-	-	Negative	Rat	Dermal	20 days
	-	-	Negative	Rat	Dermal	10 days
0	-	-	Negative	Rat	Dermal	10 days

**Conclusion/Summary** 

Development: Not classified. Based on available data, the classification criteria are not met.

Fertility: Not classified. Based on available data, the classification criteria are not met. Effects on or via lactation: Not classified. Based on available data, the classification

criteria are not met.

Specific target organ toxicity (repeated exposure)

Name	Cotomomy	Doute of	Target argans
Name	Category	Route of	Target organs
		exposure	
Fuels, diesel	Category 2	Not determined	bone marrow, liver and thymus

# **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact No known significant effects or critical hazards. Skin contact Causes skin irritation. Defatting to the skin.

Inhalation Harmful if inhaled.

Ingestion Irritating to mouth, throat and stomach. Aspiration hazard if swallowed -- harmful or fatal

if liquid is aspirated into lungs.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:

> pain or irritation watering redness

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# Section 11. Toxicological information

**Skin contact** Adverse symptoms may include the following:

irritation redness

**Inhalation** Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Ingestion** Adverse symptoms may include the following:

nausea or vomiting

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

effects

May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition products occurs. Vapor, mist or fume may irritate the nose, mouth and

respiratory tract.

Potential delayed effects

Not available.

Long term exposure

**Potential immediate** 

Not available.

effects

Potential delayed effects Not available.

Potential chronic health effects

General May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal

decomposition products occurs. Prolonged or repeated contact can defat the skin and

lead to irritation and/or dermatitis.

**Carcinogenicity** Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

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.

Additional information 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.

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# **Section 11. Toxicological information**

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.

# Section 12. Ecological information

# **Toxicity**

No testing has been performed by the manufacturer.

No testing has been per	No testing has been performed by the manufacturer.							
Product/ingredient name	Species	Test/Result	Exposure	Effects	Remarks			
Fuels, diesel, No 2	Micro-organism	EL50 >1000 mg/l Nominal Fresh water	40 hours	growth inhibition	Based on Vacuum gas oil / Hydrocracked gas oil / Distillate Fuel			
	Micro-organism	NOELR 3.217 mg/ I Nominal Fresh water	40 hours	growth inhibition	Based on Vacuum gas oil / Hydrocracked gas oil / Distillate Fuel			
	Algae	Acute EL50 22 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Diesel fuel			
	Daphnia	Acute EL50 210 mg/l Nominal Fresh water	48 hours	Mobility	Based on Diesel fuel			
	Daphnia	Acute EL50 68 mg/l Nominal Fresh water	48 hours	Mobility	Based on Diesel fuel			
	Algae	Acute ErL50 78 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Diesel fuel			
	Fish	Acute LL50 65 mg/l Nominal Fresh water	96 hours	Mortality	Based on Diesel fuel			
	Fish	Acute LL50 21 mg/l Nominal Fresh water	96 hours	Mortality	Based on Diesel fuel			
	Algae	Acute NOELR 10 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Diesel fuel			
	Algae	Acute NOELR 1 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Diesel fuel			
	Daphnia	Acute NOELR 46 mg/l Nominal Fresh water	48 hours	Mobility	Based on Diesel fuel			
	Fish	Chronic NOEL 0.083 mg/l Nominal Fresh water	14 days	Mortality	Based on Vacuum gas oil / Hydrocracked gas oil / Distillate			

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# Section 12. Ecological information

Fuel

Chronic NOELR 21 days Immobilization Based on Daphnia

> 0.2 mg/l Nominal Fresh water

Vacuum gas oil / Hydrocracked gas oil / Distillate

Fuel

naphthalene EC50 0.4 mg/l 96 hours Algae

> Crustaceans EC50 2.16 mg/l 48 hours

**Conclusion/Summary** Poxic to aquatic life with long lasting effects.

#### Persistence and degradability

Expected to be biodegradable.

**Product/ingredient name** Test Result Remarks

Fuels, diesel, No 2 **OECD 301 F** 60 % - Readily - 28 days Based on Diesel fuel

> **OECD 301 F** Based on Diesel fuel 57.5 % - Not readily - 28 days 35 % - Not readily - 28 days

Equivalent to EPA OTS 796.3100

Based on Gas Oils (petroleum),

solvent refined

Conclusion/Summary Not available.

#### Bioaccumulative potential

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

#### Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

Mobility Spillages may penetrate the soil causing ground water contamination.

Other ecological information Spills may form a film on water surfaces causing physical damage to organisms. Oxygen

transfer could also be impaired.

# Section 13. Disposal considerations

## **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Product name **Product code** 11155 Page: 12/15 Diesel Fuel No. 2 Version 3 Date of issue 05/17/2019. Format US Language ENGLISH

# **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	NA1993	UN1202	UN1202	UN1202
UN proper shipping name	Diesel fuel	Gas oil	Gas oil. Marine pollutant	Gas oil
Transport hazard class(es)	Combustible liquid.	3	3	3
Packing group	III	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	Mon-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.  Reportable quantity 100 lbs / 45.4 kg [14.152 gal / 53.569 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user Not available.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Proper shipping name

MARPOL Annex 1 rules apply for bulk shipments by

sea.

Category: gas oils, including ship's bunkers

# Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b)

All components are listed or exempted.

FSCA 5(a)2 final significant new use rules: 4-nonylphenol, branched

**SARA 302/304** 

Composition/information on ingredients

No products were found.

Product name Diesel Fuel No. 2 Product code 11155 Page: 13/15

# Section 15. Regulatory information

**SARA 311/312** 

Classification LAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bone marrow, liver,

thymus) - Category 2

ASPIRATION HAZARD - Category 1

HNOC - Defatting irritant

## **SARA 313**

	Product name	CAS number	Concentration
Form R - Reporting requirements	naphthalene	91-20-3	0.0242 - 0.13
Supplier notification	naphthalene	91-20-3	0.0242 - 0.13

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

**Massachusetts** None of the components are listed.

**New Jersey** The following components are listed: NAPHTHALENE; MOTH FLAKES

The following components are listed: NAPHTHALENE **Pennsylvania** 

California Prop. 65 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.

⚠ WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Naphthalene, Cumene, Ethylbenzene, Cumene, Propylene oxide and Benzo[a]pyrene, which are known to the State of California to cause cancer, and Toluene and Methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## Other regulations

Australia inventory (AICS) At least one component is not listed.

**Canada inventory** Not determined.

China inventory (IECSC) At least one component is not listed. Japan inventory (ENCS) At least one component is not listed. Korea inventory (KECI) At least one component is not listed. **Philippines inventory** At least one component is not listed.

(PICCS)

**Taiwan Chemical** Not determined.

**Substances Inventory** 

(TCSI)

**REACH Status** For the REACH status of this product please consult your company contact, as

identified in Section 1.

# Section 16. Other information

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



**History** 

05/17/2019. Date of issue/Date of

revision

Date of previous issue 09/07/2017.

Prepared by **Product Stewardship** 

**Product name Product code** 11155 Page: 14/15 Diesel Fuel No. 2

# Section 16. Other information

## Key to abbreviations

ACGIH = American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS Number = Chemical Abstracts Service Registry Number

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure limit TWA = Time weighted average

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United

Nations Committee of Experts on the Transport of Dangerous Goods.

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

## ▼ Indicates information that has changed from previously issued version.

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