SAFETY DATA SHEET



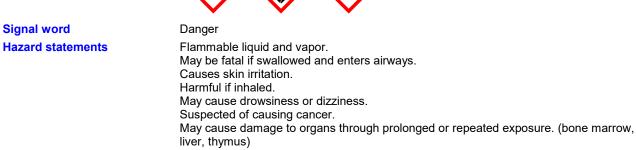
Section 1. Identification Diesel Fuel No. 1 **Product name Chemical name** Fuels, diesel SDS # 11154 Code 11154 Relevant identified uses of the substance or mixture and uses advised against Product use Fuel. BP Products North America Inc. Supplier 30 South Wacker Drive Chicago, IL 60606 USA 1 (800) 447-8735 **EMERGENCY HEALTH INFORMATION:** Outside the US: +1 703-527-3887 (CHEMTREC) **EMERGENCY SPILL** 1 (800) 424-9300 CHEMTREC (USA) **INFORMATION:**

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 substance or mixture	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1

GHS label elements **Hazard pictograms**

Signal word



Precautionary statements

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Section 2. Hazards identification

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.
Response	IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention.
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity.
Hazards not otherwise classified	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire or explosion. 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

Mixture

Mixture of: Petroleum distillates (Diesel fuel No. 1 and/or 2) May contain renewable diesel. May contain fatty acid methyl esters (FAME). May also contain small quantities of proprietary performance additives.

Substance/mixture

Ingredient name	CAS number	%
Kerosene (petroleum) [Diesel Fuel No. 1]	8008-20-6	0 - 100
and/or Fuels, diesel, No 2	68476-34-6	0 - 100
Contains:	00470-04-0	0 - 100
naphthalene	91-20-3	<1
Contains one or more of the following renewable diesels:		
Alkanes, C10-20-branched and linear	928771-01-1	0 - 100
Contains one or more of the following biodiesels:	Varies	0 - 5
Fatty acids, canola-oil, Me esters	129828-16-6	-
Fatty acids, vegetable-oil, Me esters	68990-52-3	-
fatty acids, tallow, me esters	61788-61-2	-
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	-
Soybean oil, Me ester	67784-80-9	-
Fatty acids, sunflower-oil, Me esters	68919-54-0	-
Rape oil, Me ester	73891-99-3	-

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.			
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes 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. If exposure to vapor, mists or fumes causes drowsiness, headache, blurred vision or irritation of the eyes, nose or throat, remove immediately to fresh air. Keep patient warm and at rest. If any symptoms persist obtain medical advice.			
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	Treatment 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	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet.
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. Vapors can form explosive mixtures with air. Vapors are heavier than air and can spread along the ground or float on water surfaces to remote ignition sources. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of

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Section 5. Fire-fighting measures

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	ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Liquid will float and may reignite on surface of water.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
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.

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.

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.			

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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. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Restrict flow velocity according to API 2003 (2008), NFPA 77 (2007), and Laurence Britton, "Avoiding Static Ignition Hazards in Chemical Operations". To reduce potential for static discharge, ensure that all equipment is properly grounded and bonded and meets appropriate electrical classification requirements.
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.
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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits				
Kerosene (petroleum) [Diesel fuel No. 1]	ACGIH TLV (United States). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours. Issued/Revised: 1/2003				
Fuels, diesel, No 2	ACGIH TLV (United States). Absorbed through skin. TWA: 100 mg/m ³ , (measured as total hydrocarbons) 8 hours. Issued/Revised: 1/2007 Form: Inhalable fraction and vapor				
Renewable hydrocarbons (diesel type fraction)	None.				
naphthalene	ACGIH TLV (United States). Absorbed through skin. TWA: 52 mg/m ³ 8 hours. Issued/Revised: 5/1996 TWA: 10 ppm 8 hours. Issued/Revised: 5/1996 OSHA PEL (United States). TWA: 50 mg/m ³ 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 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	Chemical splash goggles.						
Skin protection							
Hand protection	Wear chemical resistant gloves. Recommended: 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.						
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Section 8. Exposure controls/personal protection

Body protection	Use 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.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	Liquid.
Color	Colorless. to Various Colors. (May be dyed Red., Light Green., Yellow.)
Odor	Petroleum
Odor threshold	0.7 ppm (Based on Fuels, diesel)
рН	Not applicable. Based on Solubility in water (Very slightly soluble in water)
Melting point/freezing point	-29 to -18°C (-20.2 to -0.4°F) (Based on Fuels, diesel)
Boiling point, initial boiling point, and boiling range	160 to 390°C (320 to 734°F)
Flash point	Closed cup: >38°C (>100.4°F) [Pensky-Martens]
Evaporation rate	Not relevant/applicable due to nature of the product. Based on low volatility
Flammability	Not applicable. Based on - Physical state
Lower and upper explosion limit/flammability limit	Lower: 0.6% Upper: 7.5%
Vapor pressure	0.4 kPa (3 mm Hg) (Based on Concawe Category: Vacuum Gas Oils, Hydrocracked Gas Oils & Distillate Fuels (VHGO))

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Section 9. Physical and chemical properties

			Vapor Pressure at 20°C			Va	Vapor pressure at 50°C		
	Ing	redient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		sene (petroleum) sel fuel No. 1]	2	0.27					
	hydr	ewable ocarbons (diesel fraction)	0.65	0.087					
		/ acids, vegetable- le esters	3.15	0.42	EU A.4				
		v acids, C16-18 and unsatd., Me esters	3.15	0.42	EU A.4				
Relative vapor density	>1 [/	Air = 1]			-				
Density	815	to 840 kg/m³ (0.3	815 to 0.8	84 g/cm ³	3)				
Relative density	<1								
Solubility(ies)									
Media		Result							
water		Very slightly sol	uble						
Partition coefficient: n- octanol/water	Not applicable. Based on Fuels, diesel - Substance is a hydrocarbon UVCB. Standar tests for this endpoint are intended for single substances and are not appropriate for complex substance.								
Auto-ignition temperature	210°C (410°F)								
Decomposition temperature	Not	observed to dec	ompose b	y final b	oiling point: >	390°C (>	734°F)		
Viscosity	Kine	matic: 1.3 to 2.4	mm²/s (1	.3 to 2.4	4 cSt) at 40°C				
Particle characteristics Median particle size	Not	Kinematic: 1.3 to 2.4 mm ² /s (1.3 to 2.4 cSt) at 40°C Not applicable.							

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 reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Avoid 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 products	Under normal conditions of storage and use, hazardous decomposition products should 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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erosene (petroleum) Diesel fuel No. 1]	LC50 Inhalati Vapor	on Rat		>5.28 mg/l Mortality an Systemic Et		8	Based on Straight run kerosene
	LD50 Dermal	Rabbit		>2000 mg/k Mortality an Systemic Et	d		Based on Thermocracked kerosene
	LD50 Oral	Rat		>5000 mg/k			Based on Thermocracked kerosene
Fuels, diesel, No 2	LC50 Inhalati Dusts and mi			4.1 mg/l	4 hours	6	Based on Diesel fuel
	LD50 Dermal	Rabbit		>4300 mg/k	(g -		Based on No. 2 Heating Oil.
	LD50 Dermal	Rabbit		>4300 mg/k	(g -		Based on Diesel fuel
	LD50 Oral	Rat		17900 mg/k	kg -		Based on No. 2 Heating Oil.
	LD50 Oral	Rat		7600 mg/kg	J -		Based on Diesel fuel
Renewable nydrocarbons (diesel ype fraction)	LD50 Dermal	Rat		>2000 mg/k	kg -		-
	LD50 Oral	Rat		>2000 mg/k	(g -		-
naphthalene	LD50 Dermal	Rabbit		20 g/kg	-		-
	LD50 Oral	Rat		490 mg/kg	-		-
Conclusion/Summary	Harm	ful if inhaled.					
<u>ritation/Corrosion</u> Product/ingredient	Species	Result	Score	Exposure	Observation	Conc.	Remarks
name Kerosene (petroleum) [Diesel fuel No. 1]	Rabbit	Eyes - Non- irritating to the eyes.	-	100%	-	100%	Based on Thermocracked kerosene
	Rabbit	Skin - Irritation	-	24 hours 100%	-	100%	Based on Heating Oil.
	Rabbit	Skin - Non- irritant to skin.	-	4 hours 100 %	-	100 %	Based on Kerosene
Fuels, diesel, No 2	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	Based on No. 2 Heating Oil.
	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	Based on Diesel fuel
	Rabbit	Skin - Irritation	-	-	-	-	Based on No. 2 Heating Oil.
	Rabbit	Skin - Irritation	-	-	-	-	Based on Diesel fuel
Renewable hydrocarbons (diesel	Unspecified	Eyes - Non- irritating to the eyes.	-	-	-	-	-
type fraction)		ule eyes.					

Section 11. Toxicological information

Uns	specified Skin - Non- irritant to skin.			-
Skin	Causes skin irritat	ion.		
Eyes	Not classified. Bas	ed on available data, t	he classification crite	ria are not met.
<u>Sensitizer</u>				
Product/ingredient name	Route of exposure	Species	Result	Remarks
Kerosene (petroleum) [Diese fuel No. 1]		Guinea pig	Not sensitizing	Based on Thermocracked kerosene
Fuels, diesel, No 2	skin	Guinea pig	Not sensitizing	Based on No. 2 Heating Oil.
	skin	Guinea pig	Not sensitizing	Based on Diesel fuel
Renewable hydrocarbons (diesel type fraction)	skin	Unspecified	Not sensitizing	-
Skin	Not classified. Bas	ed on available data, t	he classification crite	ria are not met.
<u>Autagenicity</u>				
Product/ingredient name Kerosene (petroleum) [Diesel fuel No. 1]	Test Equivalent to OECD 476	Experiment Experiment: In vitro	Result Negative	Remarks Based on Hydrodesulfurized kerosene
		Subject: Mammal - species unspecified		
	Equivalent to OECD 476	Experiment: In vitro	Negative	Based on Hydrodesulfurized kerosene
		Subject: Mammal - species unspecified		
	Equivalent to OECD 471	Experiment: In vitro	Negative	Based on Hydrodesulfurized kerosene
		Subject: Non- mammalian species		
	Equivalent to OECD 475	Experiment: In vivo	Negative	Based on Straight run kerosene
		Subject: Unspecified Cell: Germ		
	Equivalent to OECD 478	Experiment: In vivo	Negative	Based on Straight run kerosene
		Subject: Unspecified Cell: Germ		
Fuels, diesel, No 2	OECD 471	Experiment: In vitro Subject: Non- mammalian species	Positive	Based on Diesel fue
	Equivalent to OECD 476	Experiment: In vitro	Negative	Based on Heating Oil.
		Subject: Mammalian-Animal Cell: Germ		
	not guideline	Experiment: In vivo	Negative	Based on Heating Oil.
		Subject: Unspecified Cell: Somatic		
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enewable hydrocarbor diesel type fraction)	ns EU B1	0	Experin	nent: In vitro	Negative		-	
alesei type nachon)			Subject	: Unspecified	t			
	EU B1	3/14		nent: In vitro :: Unspecified	Negative d		-	
	EU B1	7		nent: In vitro :: Unspecified	Negative		-	
Conclusion/Summary arcinogenicity	Ba	sed on avai	lable data, th	ne classificati	on criteria ar	e not mei	t.	
Product/ingredient name	Test author Test num	-	Species	Route	Exposure	Resu	lt F	Remarks
erosene (petroleum) Diesel fuel No. 1]	Equivalent to OECD		Mouse	Dermal	2 years	Negati Derma Unspe	al- ⊢	Based on Hydrotreated Kerosene
	Equivalent to OECD	451	Mouse	Dermal	2 years	Positiv Derma Unspe	al- F	Based on Jet Fuel
Fuels, diesel, No 2	Equivalent to OECD	451	Mouse	Dermal	2 years	Positiv Derma Unspe	al- H	Based on leating Oil.
Conclusion/Summary	Su	spected of o	causing canc	er.				
<u>Classification</u>								
Product/ingredient n		SHA IAI	RC NTF					
Kerosene (petroleum) fuel No. 1] naphthalene) [Diesel -	3 2B	- Rea	sonably antic	cipated to be	a human	carcinode	'n
Descriptors:	00114							
	OSHA: + - Potential d carcinogen	occupational	2A - 2B - hum 3 - N carci 4 - P	Carcinogenic to Probable huma Possible carcii an. lot classifiable inogen. trobably not a f	an carcinogen. nogen to as a human	carcinog Possible		bly anticipated
Carcinogenicity Additi	+ - Potential carcinogen	occupational ot applicabl	1 - (2A - 2B - hum 3 - N carci 4 - P carci	Carcinogenic to Probable huma Possible carcin an. lot classifiable inogen.	an carcinogen. nogen to as a human	Proven - carcinog Possible	ens. - Reasonal	bly anticipated
Carcinogenicity Additi nformation eproductive toxicity	+ - Potential carcinogen	ot applicabl	1 - 0 2A - 2B - hum 3 - N carci 4 - P carci	Carcinogenic to Probable hum Possible carcii an. lot classifiable inogen. robably not a h nogen.	an carcinogen. nogen to as a human numan	Proven - carcinog Possible to be hu	rens. - Reasonal man carcinc	bly anticipated ogens.
Carcinogenicity Additi information <u>eproductive toxicity</u> Product/ingredient na	+ - Potential carcinogen ional N me	ot applicabl Maternal toxicity	1 - (2A - 2B - hum 3 - N carcu 4 - P carcu e.	Carcinogenic to Probable humo Possible carcin an. lot classifiable inogen. robably not a h inogen. Developi toxin	an carcinogen. nogen to as a human numan ment Sp o	Proven - carcinog Possible to be hu	rens. - Reasonal man carcinc Result	bly anticipated ogens. Exposure
Carcinogenicity Additi information <u>eproductive toxicity</u> Product/ingredient nat Kerosene (petroleum) [I	+ - Potential carcinogen ional N me	ot applicabl Maternal toxicity	1 - 0 2A - 2B - hum 3 - N carci 4 - P carci	Carcinogenic to Probable huma Possible carcin an. Iot classifiable inogen. robably not a h inogen. Developi toxin -	an carcinogen. nogen to as a human numan ment Sp u Rat	Proven - carcinog Possible to be hu	ens. - Reasonal man carcinc Result Dermal	bly anticipated ogens. Exposure 34 days
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Carcinogenicity Additi nformation eproductive toxicity Product/ingredient nat Kerosene (petroleum) [I	+ - Potential carcinogen ional N me	ot applicabl Maternal toxicity	1 - 0 2A - 2B - hum. 3 - N carci 4 - P carci e. Fertility Negative - -	Carcinogenic to Probable huma Possible carcin an. Iot classifiable inogen. robably not a h inogen. Developi toxin -	an carcinogen. nogen to as a human numan ment Spo Rat Rat	Proven - carcinog Possible to be hu	ens. - Reasonal man carcinc Result Dermal Inhalatior Oral	bly anticipated bgens. Exposure 34 days 10 days 10 days
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Carcinogenicity Additi information Reproductive toxicity Product/ingredient nat Kerosene (petroleum) [I No. 1] Fuels, diesel, No 2 Renewable hydrocarbor	+ - Potential carcinogen	ot applicabl Maternal toxicity	1 - 0 2A - 2B - hum. 3 - N carci 4 - P carci e. Fertility Negative - -	Carcinogenic to Probable humo Possible carcin an. lot classifiable inogen. Probably not a h inogen. Developm toxin - Negative Negative - Negative	an carcinogen. nogen to as a human numan ment Spu Rai Rai Rai Rai Rai	Proven - carcinog Possible to be hu	Result Dermal Oral Dermal Dermal Dermal Dermal Dermal Dermal	bly anticipated ogens. Exposure 34 days 10 days 10 days 90 days 10 days

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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 (single exposure)

Name	Category	Route of exposure	Target organs	
Kerosene (petroleum) [Diesel fuel No. 1]	Category 3	-	Narcotic effects	
Specific target organ toxicity (repeated exposure	<u>e)</u>	I		
Name	Category	Route of exposure	Target organs	
Fuels, diesel, No 2	Category 2	-	bone marrow, liver, thymus	
Aspiration hazard				
Name	R	lesult		
🔀 rosene (petroleum) [Diesel fuel No. 1]		ASPIRATION HAZARD - Category 1		

Kerosene (petroleum) [Diesel fuel No. 1] ASPIRATION HAZARD - Category	I
Fuels, diesel, No 2 ASPIRATION HAZARD - Category	I
Renewable hydrocarbons (diesel type fraction) ASPIRATION HAZARD - Category	1

Information on the likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation.
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Skin contact	Causes skin irritation.
Inhalation	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
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
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 effects	Not available.

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Potential delayed effects	Not available.
Potential chronic health effe	<u>cts</u>
General	May cause damage to organs through prolonged or repeated exposure. 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.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates		
Route	ATE value	
Inhalation (dusts and mists)	>4.1 mg/l	

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.
	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 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.

Product/ingredient	Species	Test/Result	Exposure	Effects	Remarks
name					

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Kerosene (petroleum) [Diesel fuel No. 1]	Algae	EL50 1 to 3 mg/l Nominal Fresh water	72 hours	cell number	Based on Solvent naphtha (petroleum), heavy aromatic			
	Micro-organism	LL50 677.9 mg/l Nominal Fresh water	72 hours	growth inhibition	Based on Kerosene			
	Algae	LOEL 1 mg/l Nominal Fresh water	72 hours	cell number	Based on Solvent naphtha (petroleum), heavy aromatic			
	Algae	NOEL 1 mg/l Nominal Fresh water	24 hours	cell number	Based on Solvent naphtha (petroleum), heavy aromatic			
	Algae	NOEL 1 mg/l Nominal Fresh water	48 hours	cell number	Based on Solvent naphtha (petroleum), heavy aromatic			
	Micro-organism	NOEL 1.641 mg/l Nominal Fresh water	72 hours	growth inhibition	Based on Kerosene			
	Daphnia	Acute EL50 1.4 mg/l Nominal Fresh water	48 hours	Mobility	Based on Kerosene (petroleum), hydrodesulfurized			
	Fish	Acute LL50 2 to 5 mg/l Fresh water	96 hours	Mortality	Based on Heavy aromatic solvent naphtha			
	Daphnia	Acute NOEL 0.3 mg/l Nominal Fresh water	48 hours	Mobility	Based on Kerosene (petroleum), hydrodesulfurized			
	Fish	Acute NOEL 2 mg/l Fresh water	96 hours	Mortality	Based on Solvent naphtha (petroleum), heavy aromatic			
	Daphnia	Chronic EL50 0.89 mg/l Fresh water	21 days	Reproduction	Based on Kerosene (petroleum), hydrodesulfurized			
	Daphnia	Chronic EL50 0.81 mg/l Fresh water	21 days	Immobilization	Based on Kerosene (petroleum), hydrodesulfurized			
	Daphnia	Chronic LOEL 1.2 mg/l Fresh water	21 days	Reproduction	Based on Kerosene (petroleum), hydrodesulfurized			
	Daphnia	Chronic LOEL 0.48 mg/l Fresh water	21 days	Adult Length	Based on Kerosene (petroleum), hydrodesulfurized			
	Daphnia	Chronic NOEL	21 days	Reproduction	Based on			
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Section 12. E	cological inf	ormation			
		0.48 mg/l Fresh water			Kerosene (petroleum), hydrodesulfurized
	Daphnia	Chronic NOEL 1.2 mg/l Fresh water	21 days	Adult Length	Based on Kerosene (petroleum), hydrodesulfurized
	Fish	Chronic NOEL 0.098 mg/l Nominal Fresh water	28 days	Mortality	Based on Kerosene
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
	Daphnia	Chronic NOELR 0.2 mg/l Nominal Fresh water	21 days	Immobilization	Based on Vacuum gas oil / Hydrocracked gas oil / Distillate Fuel
	Fish	Chronic NOEL	14 days	Mortality	Based on
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		0.083 mg/l Nominal Fresh water			Vacuum gas oil / Hydrocracked gas oil / Distillate Fuel
Renewable hydrocarbons (diesel type fraction)	Micro-organism	Acute EC50 >100 mg/l	3 hours	-	-
	Aquatic plants	Acute EL50 >100 mg/I WAF	48 hours	-	-
	Daphnia	Acute EL50 >100 mg/I WAF	48 hours	-	-
	Fish	Acute LL50 >1000 mg/l WAF	96 hours	-	-
	Daphnia	Chronic NOEC 1 mg/I WAF	21 days	-	-
naphthalene	Algae	EC50 0.4 mg/l	96 hours	-	-
Conclusion/Summary	Crustaceans Toxic to a	EC50 2.16 mg/l quatic life with long l	48 hours asting 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	57.5 % - Not readily - 28 days	Based on Diesel fuel
	Equivalent to EPA OTS 796.3100	35 % - Not readily - 28 days	Based on Gas Oils (petroleum), solvent refined
Conclusion/Summary	Non-persistent p	per IMO criteria	

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. This material may accumulate in sediments.
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.

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Section 13. Disposal considerations

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.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN number	NA1993	UN1202	UN1202	UN1202
UN proper shipping name	Diesel fuel (Kerosene, Fuels, diesel, No 2) RQ	Gas oil	Gas oil. Marine pollutant	Gas oil
Transport hazard class(es)	Combustible liquid.	3		3
Packing group	111	Ш	111	111
Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	Non-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 [14.494 gal / 54.864 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. <u>Emergency</u> <u>schedules</u> F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user No

Not available.

Transport in bulk according to IMO instruments

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) Please contact your supplier for information on the inventory status of this material.

SARA 302/304

Composition/information on ingredients

Product code 11154

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Section 15. Regulatory information

No products were found.

<u>SARA 311/312</u>	
Classification	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid HNOC - High Pressure Statement
• • • • • • • •	

<u>SARA 313</u>

	Product name	CAS number	Concentration
Form R - Reporting requirements	naphthalene	91-20-3	<1
Supplier notification	naphthalene	91-20-3	<1

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.

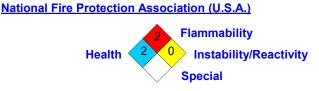
State regulations			
Massachusetts	s 📝 he following components are listed: KEROSINE		
New Jersey	The following components are listed: KEROSENE; NAPHTHALENE		
Pennsylvania	sylvania Phe following components are listed: KEROSINE (PETROLEUM)		
California Prop. 65	Prop 65 chemicals will result under certain 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 and Propylene oxide, 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 (AIIC)	At least one component is not listed.
Canada inventory	Please contact your supplier for information on the inventory status of this material.
China inventory (IECSC)	At least one component is not listed.
Japan inventory (CSCL)	At least one component is not listed.
Korea inventory (KECI)	Not determined.
Philippines inventory (PICCS)	At least one component is not listed.
Taiwan Chemical Substances Inventory (TCSI)	Not determined.
REACH Status	For the REACH status of this product please consult your company contact, as identified in Section 1.

Section 16. Other information



History

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Section 16. Other information

Date of issue/Date of revision	
Date of previous issue	
Prepared by	

Indicates information that has changed from previously issued version.

Notice to reader

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 BP Group.

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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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