

# SAFETY DATA SHEET

Fuels, diesel



## Section 1. Identification

**GHS product identifier** Fuels, diesel  
**Other means of identification** Distillate Marine Fuels  
DMA, DMALS, DMAXX, DMALSXX  
DMB, DMBLS, DMBXX, DMBLSXX  
DMZ, DMZLS, DMZXX, DMZLSXX  
F-76  
**Product type** Liquid.  
**Product code** SMI2110.  
**SDS #** SMI2110.

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

**Product use** Fuel for marine engines.  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Supplier** BP Marine Singapore Pte Ltd  
1 Harbour Front Avenue  
#02-01 Keppel Bay Tower  
Singapore 098632

**EMERGENCY TELEPHONE NUMBER** +65 63718999 (24 hours)

**E-mail address** MSDSadvice@bp.com

## Section 2. Hazards identification

**Classification of the substance or mixture** ACUTE TOXICITY: INHALATION - Category 4  
SKIN CORROSION/IRRITATION - Category 2  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
ASPIRATION HAZARD - Category 1  
AQUATIC TOXICITY (CHRONIC) - Category 2

### GHS label elements

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

Combustible liquid.  
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.  
Toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/clothing and eye/face protection.

**Product name** Fuels, diesel

**Product code** SMI2110.

**Page:** 1/12

**Version** 2 **Date of issue** 06/27/2011.

**Format** Singapore

**Language** ENGLISH

(Singapore)

(ENGLISH)

## Section 2. Hazards identification

<b>Response</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
	If skin irritation occurs, seek medical advice/attention.
<b>Storage</b>	Not applicable.
<b>Disposal</b>	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Other hazards which do not result in classification</b>	<p>Note: High Pressure Applications</p> <p>Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.</p> <p>See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.</p> <p>This material may contain significant quantities of polycyclic aromatic hydrocarbons (PCAs), some of which have been shown by experimental studies to induce skin cancer.</p>

## Section 3. Composition/information on ingredients

**Substance/mixture** Substance  
May contain 2% Sulphur or Sulfur (Maximum)

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
Fuels, diesel	100	68334-30-5

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 or the environment 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

<b>Eye contact</b>	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.
<b>Inhalation</b>	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.
<b>Skin contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.
<b>Ingestion</b>	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.

### 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

<b>Product name</b> Fuels, diesel	<b>Product code</b> SMI2110.	<b>Page:</b> 2/12
<b>Version</b> 2	<b>Date of issue</b> 06/27/2011.	<b>Format</b> Singapore
	(Singapore)	<b>Language</b> ENGLISH
		(ENGLISH)

## Section 4. First aid measures

### 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.

### 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.

## Section 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Use foam or all-purpose dry chemical to extinguish.

#### Unsuitable extinguishing media

Do not use water jet.

### Specific hazards arising from the chemical

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. 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. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

### Hazardous thermal decomposition products

Combustion products may include the following:  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)  
sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.)  
other hazardous substances.

### Special protective actions for fire-fighters

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

### 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. 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. 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**

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. 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. 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. Aspiration hazard Can enter lungs and cause damage. Never siphon by mouth. Take precautionary measures against static discharge.

## 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 to any tanks or other confined space requires a full risk assessment and appropriate control measures to be put in place in conformance with appropriate regulations and industry practice on confined space entry. 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

This product does not have any assigned OELs.

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### 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

**Product name** Fuels, diesel

**Product code** SMI2110.

**Page:** 5/12

**Version** 2 **Date of issue** 06/27/2011.

**Format** Singapore

**Language** ENGLISH

(Singapore)

(ENGLISH)

## Section 8. Exposure controls/personal protection

### 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.

### Skin protection

Use of protective clothing is good industrial practice. 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 from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static. When there is a risk of ignition wear inherently fire resistant protective clothes and gloves. 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. 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. 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.

### Respiratory protection

Use with adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory equipment.

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.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application.

Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

**Recommended:** Gas filter suitable for gases and vapors. Filter type: A  
Combined filter suitable for gases, vapors and particles (dust, smoke, mist, aerosol). Filter type: AP

## Section 9. Physical and chemical properties

### Appearance

#### Physical state

Liquid.

#### Color

Amber./ Dark Brown.

#### Odor

Gas oil

#### Odor threshold

Not available.

**Product name** Fuels, diesel

**Product code** SMI2110.

**Page:** 6/12

**Version** 2 **Date of issue** 06/27/2011.

**Format** Singapore

**Language** ENGLISH

(Singapore)

(ENGLISH)



## Section 9. Physical and chemical properties

<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Boiling point</b>	150 to 385°C (302 to 725°F)
<b>Flash point</b>	Closed cup: >60°C (>140°F)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable. Physical state - Liquid.
<b>Lower and upper explosive (flammable) limits</b>	Lower: 0.6% Upper: 6.5%
<b>Vapor pressure</b>	<0.04 kPa (<0.301 mm Hg) at 20°C
<b>Vapor density</b>	>2 [Air = 1]
<b>Relative density</b>	Not available.
<b>Density</b>	<900 kg/m <sup>3</sup> (<0.9 g/cm <sup>3</sup> ) at 15°C
<b>Solubility</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	250°C (482°F)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Kinematic: 2 to 11 mm <sup>2</sup> /s (2 to 11 cSt) at 40°C

## Section 10. Stability and reactivity

<b>Reactivity</b>	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Avoid all possible sources of ignition (spark or flame). Avoid excessive heat.
<b>Incompatible materials</b>	Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products</b>	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 name	Result/Route	Test detail	Species	Dose	Exposure	Remarks
Fuels, diesel	LD50 Dermal	Equivalent to OECD 434	Rabbit	>4300 mg/kg	-	Based on No. 2 Heating Oil.
	LD50 Dermal	Equivalent to OECD 434	Rabbit	>4300 mg/kg	-	Based on Diesel fuel
	LD50 Oral	Equivalent to OECD	Rat	17900 mg/kg	-	Based on No. 2

<b>Product name</b>	Fuels, diesel	<b>Product code</b>	SMI2110.	<b>Page:</b>	7/12
<b>Version</b>	2	<b>Date of issue</b>	06/27/2011.	<b>Format</b>	Singapore
			(Singapore)	<b>Language</b>	ENGLISH
					(ENGLISH)

## Section 11. Toxicological information

	401					Heating Oil.
LD50 Oral	Equivalent to OECD 420	Rat	7600 mg/kg	-		Based on Diesel fuel
LC50 Inhalation Vapor	Equivalent to OECD 403	Rat	4.1 mg/l	4 hours		Based on Diesel fuel

### Irritation/Corrosion

Product/ingredient name	Test authority / Test number	Species	Route/Result	Conc.	Remarks
Fuels, diesel	Equivalent to OECD 404	Rabbit	Skin - Irritation	-	Based on No. 2 Heating Oil.
	Equivalent to OECD 404	Rabbit	Skin - Irritation	-	Based on Diesel fuel
	Equivalent to OECD 405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on No. 2 Heating Oil.
	Equivalent to OECD 405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on Diesel fuel

### Sensitization

Product/ingredient name	Route of exposure	Test detail	Species	Result	Remarks
Fuels, diesel	skin	Equivalent to OECD 406	Not sensitizing	Guinea pig	Based on No. 2 Heating Oil.
	skin	Equivalent to OECD 406	Not sensitizing	Guinea pig	Based on Diesel fuel

### Mutagenicity

Product/ingredient name	Test detail	Cell / Type	Result	Remarks
Fuels, diesel	OECD 471	Experiment: In vitro Subject: Non-mammalian species	Positive	Based on Diesel fuel
	Equivalent to OECD 476	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative	Based on Heating Oil.
	not guideline	Experiment: In vivo Subject: Unspecified Cell: Somatic	Negative	Based on Heating Oil.

### Conclusion/Summary

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

### Carcinogenicity

Product/ingredient name	Test detail	Species	Route	Exposure	Result	Remarks
Fuels, diesel	Equivalent to OECD 451	Mouse	Dermal	2 years	Positive - Dermal - Unspecified	Based on Heating Oil.

### Conclusion/Summary

Suspected of causing cancer.

### Reproductive toxicity

Product/ingredient name	Test detail	Species	Exposure	Developmental toxicity	Maternal toxicity	Fertility	Remarks

**Product name** Fuels, diesel

**Product code** SMI2110.

**Page:** 8/12

**Version** 2 **Date of issue** 06/27/2011.

**Format** Singapore

**Language** ENGLISH

(Singapore)

(ENGLISH)



## Section 11. Toxicological information

Fuels, diesel	Equivalent 414 to OECD	Rat	Dermal	20 days	Negative	-	-	Effects observed at maternally toxic doses. (Based on Condensates (petroleum), vacuum tower)
	Equivalent 414 to OECD	Rat	Dermal	10 days	Negative	-	-	Effects observed at maternally toxic doses. (Based on Diesel fuel)
	Equivalent 414 to OECD	Rat	Dermal	10 days	Negative	-	-	Effects observed at maternally toxic doses. (Based on No. 2 Heating Oil.)

### 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	Category	Route of exposure	Target organs
Fuels, diesel	Category 2	Not determined	Not determined

### Aspiration hazard

Name	Result
Fuels, diesel	ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

### Potential acute health effects

#### Eye contact

Causes serious eye irritation.

#### Inhalation

Harmful if inhaled.

#### Skin contact

Causes skin irritation.

#### 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

**Product name** Fuels, diesel

**Product code** SMI2110.

**Page:** 9/12

**Version** 2 **Date of issue** 06/27/2011.

**Format** Singapore

**Language** ENGLISH

(Singapore)

(ENGLISH)

## Section 11. Toxicological information

### Eye contact

Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

### Inhalation

Adverse symptoms include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

### Skin contact

Adverse symptoms may include the following:  
irritation  
redness

### Ingestion

Adverse symptoms may include the following:  
nausea or vomiting

### Potential chronic health effects

#### General

May cause damage to organs through prolonged or repeated exposure. Vapor, mists or fumes may contain polycyclic aromatic hydrocarbons some of which are known to produce skin cancer.

#### 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
Oral	16333.3 mg/kg

## Section 12. Ecological information

### Toxicity

#### Environmental effects

This material is toxic to aquatic life with long lasting effects.

### Persistence/degradability

IOPC Persistent/not persistent. oil: Persistent

#### Product/ingredient name

### Bioaccumulative potential

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Not available.	-	-	-

### Mobility in soil

**Product name** Fuels, diesel

**Product code** SMI2110.

**Page:** 10/12

**Version** 2 **Date of issue** 06/27/2011.

**Format** Singapore

**Language** ENGLISH

(Singapore)

(ENGLISH)

## Section 12. Ecological information

### Soil/water partition coefficient (K<sub>oc</sub>)

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. 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

	IMDG	IATA
UN number	UN 1202	UN 1202
UN proper shipping name	Diesel Fuel. Marine pollutant (Fuels, diesel)	Diesel Fuel
Transport hazard class(es)	3  	3  
Packing group	III	III
Environmental hazards	Yes.	Yes.
Special precautions for user	Not available.	Not available.
Additional information	<b>Emergency schedules (EmS)</b> F-E, S-E  <b>Remarks</b> Marine pollutant	<b>Remarks</b> Environmentally hazardous substance mark.

## Section 15. Regulatory information

### Safety, health and environmental regulations specific for the product

No known specific national and/or regional regulations applicable to this product (including its ingredients).

### Regulation according to other foreign laws

#### REACH Status

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

#### United States inventory (TSCA 8b)

All components are listed or exempted.

#### Australia inventory (AICS)

All components are listed or exempted.

#### Canada inventory

All components are listed or exempted.

#### China inventory (IECSC)

All components are listed or exempted.

#### Japan inventory (ENCS)

All components are listed or exempted.

#### Korea inventory (KECI)

All components are listed or exempted.

#### Philippines inventory (PICCS)

All components are listed or exempted.

## Section 16. Other information

### History

#### Date of issue/Date of revision

2011 June 27

#### Date of previous issue

2011 June 27

#### Version

2

#### Prepared by

Product Stewardship

### Key to abbreviations

ACGIH = American Conference of Industrial Hygienists

CAS Number = Chemical Abstracts Service Registry Number

GHS = Global Harmonized System

IATA = International Air Transport Association, the organization

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure limit

TWA = Time weighted average

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

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.

Product name Fuels, diesel

Product code SMI2110.

Page: 12/12

Version 2 Date of issue 06/27/2011.

Format Singapore

Language ENGLISH

(Singapore)

(ENGLISH)