## Shell FuelSave Diesel

Version 2.0 Revision Date 08.07.2015 Print Date 21.07.2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Shell FuelSave Diesel

Product code : 002D2385

Manufacturer or supplier's details

Supplier : Pilipinas Shell Petroleum Corporation

156 Valero St. Salcedo Village

1227 Makati

Telephone : (+63) 28027600 Telefax : (+63) 28166565

Emergency telephone

: +632 8027600

number

Email Contact for Safety : If you have any enquiries about the content of this SDS

Data Sheet please email fuelSDS@shell.com

Recommended use of the chemical and restrictions on use

Recommended use : Fuel for on-road diesel-powered engines.

Restrictions on use :

This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier., This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin

cleanser.

#### 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Flammable liquids : Category 3
Aspiration hazard : Category 1
Acute toxicity (Inhalation) : Category 4
Skin corrosion/irritation : Category 2
Carcinogenicity : Category 2

Specific target organ toxicity - : Category 2 (Blood, thymus, Liver)

repeated exposure

Acute aquatic toxicity : Category 2 Chronic aquatic toxicity : Category 2

**GHS Label element** 

Hazard pictograms







Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:

H226 Flammable liquid and vapour.

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**HEALTH HAZARDS:** 

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or

repeated exposure.

ENVIRONMENTAL HAZARDS: H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

#### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331 Do NOT induce vomiting.

#### Disposal:

P501 Dispose of contents and container to appropriate waste

site or reclaimer in accordance with local and national

regulations.

## Other hazards which do not result in classification

May ignite on surfaces at temperatures above auto-ignition temperature. Vapour in the headspace of tanks and containers may ignite and explode at temperatures exceeding auto-ignition temperature, where vapour concentrations are within the flammability range. This material is a static accumulator. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. This product is intended for use in closed systems only.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Complex mixture of hydrocarbons consisting of paraffins,

cycloparaffins, aromatic and olefinic hydrocarbons with carbon

numbers predominantly in the C9 to C25 range.

May also contain several additives at <0.1% v/v each.

May contain cetane improver (Ethyl Hexyl Nitrate) at <0.2%

v/v.

May contain catalytically cracked oils in which polycyclic aromatic compounds, mainly 3-ring but some 4- to 6-ring

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#### **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration [%]
Fuels, diesel	68334-30-5	Flam. Liq.3; H226 Asp. Tox.1; H304 Acute Tox.4; H332 Skin Irrit.2; H315 Carc.2; H351 STOT RE2; H373 Aquatic Acute2; H401 Aquatic Chronic2; H411	> 97 - < 99
Biodiesel	67762-38-3		> 1 - < 3

Dyes and markers can be used to indicate tax status and prevent fraud.

For explanation of abbreviations see section 16.

#### **Further information**

#### Contains:

Chemical Name	Identification number	Concentration [%]
cumene	98-82-8, 202-704-5	>= 0 - <= 0.5
Naphthalene	91-20-3, 202-049-5	>= 0 - <= 0.5

#### 4. FIRST-AID MEASURES

If inhaled : Remove to fresh air. If rapid recovery does not occur.

transport to nearest medical facility for additional treatment.

In case of skin contact : Remove contaminated clothing. Immediately flush skin with

large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical

facility for additional treatment.

When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait

for symptoms to develop.

In case of eye contact : Flush eye with copious quantities of water.

If persistent irritation occurs, obtain medical attention.

If swallowed : If swallowed, do not induce vomiting: transport to nearest

medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

Give nothing by mouth.

Most important symptoms and effects, both acute and

delayed

: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest

congestion, shortness of breath, and/or fever.

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several hours after exposure.

Skin irritation signs and symptoms may include a burning

sensation, redness, or swelling.

Protection of first-aiders : When administering first aid, ensure that you are wearing the

appropriate personal protective equipment according to the

incident, injury and surroundings.

Notes to physician : Treat symptomatically.

#### **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon

dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing

media

: Do not use direct water jets on the burning product as they

could cause a steam explosion and spread of the fire. Simultaneous use of foam and water on the same surface is

to be avoided as water destroys the foam.

Specific hazards during

firefighting

Hazardous combustion products may include:

A complex mixture of airborne solid and liquid particulates and

gases (smoke). Oxides of sulphur.

Unidentified organic and inorganic compounds.

Carbon monoxide may be evolved if incomplete combustion

occurs.

Will float and can be reignited on surface water.

Flammable vapours may be present even at temperatures

below the flash point.

The vapour is heavier than air, spreads along the ground and

distant ignition is possible.

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Clear fire area of all non-emergency personnel.

Keep adjacent containers cool by spraying with water. If possible remove containers from the danger zone.

If the fire cannot be extinguished the only course of action is

to evacuate immediately.

Contain residual material at affected sites to prevent material

from entering drains (sewers), ditches, and waterways.

Special protective equipment

for firefighters

Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if

large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to

relevant Standards (e.g. Europe: EN469).

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#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Do not breathe fumes, vapour. Do not operate electrical equipment.

: Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area and evacuate all personnel. Attempt to disperse the gas or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas meter.

**Environmental precautions** 

Take measures to minimise the effects on groundwater. Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Methods and materials for containment and cleaning up

Take precautionary measures against static discharges. For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely Remove contaminated soil and dispose of safely.

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. For solids, shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

Observe all relevant local and international regulations.

Evacuate the area of all non-essential personnel.

Ventilate contaminated area thoroughly.

Additional advice

: For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

For guidance on disposal of spilled material see Chapter 13 of

this Safety Data Sheet.

Local authorities should be advised if significant spillages

cannot be contained.

Maritime spillages should be dealt with using a Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL

Annex 1 Regulation 26.

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#### 7. HANDLING AND STORAGE

**General Precautions** 

: Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Air-dry contaminated clothing in a well-ventilated area before laundering.

Prevent spillages.

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.

Never siphon by mouth.

Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse.

Maintenance and Fuelling Activities - Avoid inhalation of vapours and contact with skin.

Advice on safe handling

Ensure that all local regulations regarding handling and storage facilities are followed.

Avoid inhaling vapour and/or mists.

Avoid prolonged or repeated contact with skin.

When using do not eat or drink.

Extinguish any naked flames. Do not smoke. Remove ignition

sources. Avoid sparks. Earth all equipment.

Properly dispose of any contaminated rags or cleaning

materials in order to prevent fires.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

The vapour is heavier than air, spreads along the ground and

distant ignition is possible.

Avoidance of contact

: Strong oxidising agents.

**Product Transfer** 

: Avoid splash filling Wait 2 minutes after tank filling (for tanks such as those on road tanker vehicles) before opening hatches or manholes. Wait 30 minutes after tank filling (for large storage tanks) before opening hatches or manholes. Keep containers closed when not in use. Contamination resulting from product transfer may give rise to light hydrocarbon vapour in the headspace of tanks that have previously contained gasoline. This vapour may explode if there is a source of ignition. Partly filled containers present a greater hazard than those that are full, therefore handling, transfer and sampling activities need special care. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards

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> that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/s until fill pipe submerged to twice its diameter, then ≤ 7 m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.

## Storage

Other data

: Drum and small container storage:

Drums should be stacked to a maximum of 3 high. Use properly labeled and closable containers. Tank storage:

Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded).

Locate tanks away from heat and other sources of ignition. Must be stored in a diked (bunded) well- ventilated area, away from sunlight, ignition sources and other sources of heat. Vapours form tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a suitable vapour treatment system.

The vapour is heavier than air. Beware of accumulation in pits and confined spaces.

Keep container tightly closed and in a cool, well-ventilated place.

Keep in a cool place.

Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.

The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.

Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Keep in a bunded area with a sealed (low permeability) floor. to provide containment against spillage.

Prevent ingress of water.

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Packaging material

Suitable material: For containers, or container linings use mild steel, stainless steel., Aluminium may also be used for applications where it does not present an unnecessary fire hazard., Examples of suitable materials are: high density polyethylene (HDPE) and Viton (FKM), which have been specifically tested for compatibility with this product., For container linings, use amine-adduct cured epoxy paint., For seals and gaskets use: graphite, PTFE, Viton A, Viton B. Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene., However, some may be suitable for glove materials.

Specific use(s)

See additional references that provide safe handling practices for liquids that are determined to be static accumulators:

American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices on Static Electricity).

CENELEC CLC/TR 50404 (Electrostatics – Code of practice for the avoidance of hazards due to static electricity). Ensure that all local regulations regarding handling and storage facilities are followed.

storage facilities are followed.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Fuels, diesel	68334-30-5	X ((inhalable fraction))		US. ACGIH Threshold Limit Values
		TWA ((inhalable fraction))		US. ACGIH Threshold Limit Values
		TWA (Inhalable fraction and vapor)	100 mg/m3	ACGIH
cumene	98-82-8	TWA	50 ppm 245 mg/m3	PH OEL
Further informat		mation: Skin		
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm	ACGIH
Naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	PH OEL

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	TWA	10 ppm	OSHA Z-1
		50 mg/m3	
	TWA	10 ppm	ACGIH

#### **Biological occupational exposure limits**

No biological limit allocated.

## **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

### **Engineering measures**

: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Firewater monitors and deluge systems are recommended. Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended. Eye washes and showers for emergency use.

#### General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

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Retain drain downs in sealed storage pending disposal or

subsequent recycle.

Do not ingest. If swallowed then seek immediate medical

assistance

## Personal protective equipment

#### **Protective measures**

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory protection

: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an

appropriate combination of mask and filter.

Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].

Hand protection Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. When prolonged or frequent repeated contact occurs. Nitrile rubber. For incidental contact/splash protection Neoprene. PVC gloves may be suitable. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a nonperfumed moisturizer is recommended.

Eye protection

If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

If a local risk assessment deems it so then chemical splash

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goggles may not be required and safety glasses may provide

adequate eye protection.

Skin and body protection : Wear chemical resistant gloves/gauntlets and boots. Where

risk of splashing, also wear an apron.

Hygiene measures : Always observe good personal hygiene measures, such as

washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

Define procedures for safe handling and maintenance of

controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this

product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective

equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or

maintenance.

Retain drain downs in sealed storage pending disposal or

subsequent recycle.

Do not ingest. If swallowed then seek immediate medical

assistance.

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and

provide employee skin care programmes.

### **Environmental exposure controls**

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

vapour.

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

environmental legislation.

Information on accidental release measures are to be found in

section 6.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Undyed

Odour : Unstenched

Odour Threshold : Data not available

pH : Not applicable

Melting point/freezing point : Data not available

Boiling point/boiling range : 170 - 390 °C / 338 - 734 °FMethod: Unspecified

Flash point : 55 - 75 °C / 131 - 167 °F

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Method: Unspecified

Evaporation rate : Data not available

Flammability (solid, gas) : Not applicable

Upper explosion limit : 6 %(V)

Lower explosion limit : 1 %(V)

Vapour pressure : <= 0.4 kPa (38.0 °C / 100.4 °F)

Method: Unspecified

<= 0.6 kPa (50.0 °C / 122.0 °F)

Method: Unspecified

Relative vapour density : Data not available Relative density : Data not available

Density : 840.0 kg/m3 (15.0 °C / 59.0 °F)

Method: Unspecified

Solubility(ies)

Water solubility : Data not available Solubility in other solvents : Data not available

Partition coefficient: n-

octanol/water

: log Pow: ca. 2 - 15

Auto-ignition temperature : > 220 °C / 428 °F

Decomposition temperature : Data not available

Viscosity

Viscosity, kinematic : 2 - 4.5 mm2/s (40 °C / 104 °F)

Method: Unspecified

Explosive properties : Classification Code: Not classified.

Oxidizing properties : Not applicable

Conductivity : Low conductivity: < 100 pS/m, The conductivity of this material

makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semiconductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and

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anti-static additives can greatly influence the conductivity of a

liquid

### 10. STABILITY AND REACTIVITY

: The product does not pose any further reactivity hazards in Reactivity

addition to those listed in the following sub-paragraph.

Chemical stability : Stable under normal use conditions.

Possibility of hazardous

reactions

: No hazardous reaction is expected when handled and stored

according to provisions

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

In certain circumstances product can ignite due to static

electricity.

Incompatible materials : Strong oxidising agents.

Hazardous decomposition

products

: Hazardous decomposition products are not expected to form

during normal storage.

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this

material undergoes combustion or thermal or oxidative

degradation.

## 11. TOXICOLOGICAL INFORMATION

Basis for assessment Information given is based on product data, a knowledge of

> the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

exposure

Information on likely routes of : Skin and eye contact are the primary routes of exposure

although exposure may occur through inhalation or following

accidental ingestion.

**Acute toxicity** 

**Product:** 

Acute oral toxicity : LD50 rat: > 5,000 mg/kg

Remarks: Low toxicity:

: LC 50 rat: > 1 - <=5 mg/l Acute inhalation toxicity

Exposure time: 4 h

Remarks: Harmful if inhaled.

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Acute dermal toxicity : LD 50 Rabbit: > 2,000 mg/kg

Remarks: Low toxicity:

#### Skin corrosion/irritation

## **Product:**

Remarks: Irritating to skin.

## Serious eye damage/eye irritation

### **Product:**

Remarks: Expected to be slightly irritating.

## Respiratory or skin sensitisation

### **Product:**

Remarks: Not expected to be a sensitiser.

## Germ cell mutagenicity

## **Product:**

: Remarks: Positive in in-vitro, but negative in in-vivo mutagenicity assays.

## Carcinogenicity

## **Product:**

Remarks: Limited evidence of carcinogenic effect, Repeated skin contact has resulted in irritation and skin cancer in animals.

Material	GHS/CLP Carcinogenicity Classification
Fuels, diesel	Carcinogenicity Category 2
Biodiesel	No carcinogenicity classification.
cumene	No carcinogenicity classification.
Naphthalene	Carcinogenicity Category 2

Material	Other Carcinogenicity Classification
Fuels, diesel	IARC: Group 3: Not classifiable as to its carcinogenicity to humans
Naphthalene	IARC: Group 2B: Possibly carcinogenic to humans

## Reproductive toxicity

#### **Product:**

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Remarks: Not expected to impair fertility., Not expected to be

a developmental toxicant.

## STOT - single exposure

#### **Product:**

Remarks: Not classified.

## STOT - repeated exposure

#### **Product:**

Target Organs: Blood, thymus, Liver

Remarks: May cause damage to organs or organ systems through prolonged or repeated

exposure.

#### **Aspiration toxicity**

#### **Product:**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### **Further information**

#### **Product:**

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

## 12. ECOLOGICAL INFORMATION

Basis for assessment : Information given is based on a knowledge of the components

and the ecotoxicology of similar products.

Fuels are typically made from blending several refinery streams. Ecotoxicological studies have been carried out on a variety of hydrocarbon blends and streams but not those

containing additives.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

## **Ecotoxicity**

## **Product:**

Toxicity to fish (Acute

Remarks: Expected to be toxic: toxicity)  $LL/EL/IL50 > 1 \le 10 \text{ mg/l}$ 

Toxicity to crustacean (Acute

Remarks: Expected to be toxic: toxicity)  $LL/EL/IL50 > 1 \le 10 \text{ mg/l}$ 

Toxicity to algae/aquatic

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plants (Acute toxicity) Remarks: Expected to be toxic:

LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to fish (Chronic

toxicity)

: Remarks: NOEC/NOEL expected to be > 0.01 - <= 0.1 mg/l

(based on modeled data)

Toxicity to crustacean

(Chronic toxicity)

: Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l

(based on modeled data)

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

## Persistence and degradability

**Product:** 

Biodegradability : Remarks: Readily biodegradable.

**Bioaccumulative potential** 

**Product:** 

Bioaccumulation : Remarks: Contains constituents with the potential to

bioaccumulate.

Partition coefficient: n-

octanol/water

: log Pow: ca. 2 - 15

Mobility in soil

**Product:** 

Mobility : Remarks: Partly evaporates from water or soil surfaces, but a

> significant proportion will remain after one day., If product enters soil, one or more constituents will be mobile and may contaminate groundwater., Large volumes may penetrate soil

and could contaminate groundwater., Floats on water.

Other adverse effects

no data available

**Product:** 

Additional ecological

information

: Films formed on water may affect oxygen transfer and

damage organisms.

## 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Recover or recycle if possible.

Send to drum recoverer or metal reclaimer. It is the

responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine

the proper waste classification and disposal methods in

compliance with applicable regulations.

Drain container thoroughly. Do not dispose into the

environment, in drains or in water courses

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After draining, vent in a safe place away from sparks and fire.Do not dispose of tank water bottoms by allowing them to

drain into the ground.

Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. This will result in soil and

groundwater contamination.

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be

established beforehand.

Contaminated packaging : Residues may cause an explosion hazard if heated above the

flash point. Do not puncture, cut or weld uncleaned drums. Do not pollute the soil, water or environment with the waste

container.

Comply with any local recovery or waste disposal regulations. Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

Local legislation

Remarks : Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be complied with.

## 14. TRANSPORT INFORMATION

## **International Regulation**

**ADR** 

UN number : 1202

Proper shipping name : DIESEL FUEL

Class : 3
Packing group : III
Labels : 3
Hazard Identification Number : 30
Environmentally hazardous : yes

**IATA-DGR** 

UN/ID No. : UN 1202
Proper shipping name : DIESEL FUEL

Class : 3
Packing group : III
Labels : 3

**IMDG-Code** 

UN number : UN 1202
Proper shipping name : DIESEL FUEL

Class : 3 Packing group : III

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3 Labels Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable Pollution category Not applicable Ship type Not applicable Product name Special precautions Not applicable

Special precautions for user

Remarks : Special Precautions: Refer to Chapter 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

**Additional Information** : MARPOL Annex 1 rules apply for bulk shipments by sea.

#### 15. REGULATORY INFORMATION

## Safety, health and environmental regulations/legislation specific for the substance or mixture

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Product Classification, Labelling and SDS: DOLE Administrative Order 136-14 Guidelines for the Implementation of GHS in Chemical Safety Program in the Workplace.

# Other international regulations

## The components of this product are reported in the following inventories:

**PICCS** : All components listed or polymer exempt.

#### 16. OTHER INFORMATION

### **Full text of H-Statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. Harmful if inhaled. H332

Suspected of causing cancer. H351

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity Chronic aquatic toxicity Aquatic Chronic Asp. Tox. Aspiration hazard Carcinogenicity Carc. Flammable liquids Flam. Liq. Skin Irrit. Skin irritation

STOT RE Specific target organ toxicity - repeated exposure

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this

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document can be looked up in reference literature (e.g.

scientific dictionaries) and/or websites.

**Further information** 

Training advice : Provide adequate information, instruction and training for

operators.

Other information : This product is intended for use in closed systems only.

A vertical bar (|) in the left margin indicates an amendment

from the previous version.

Due to the conversion of this product to GHS classification and labelling, there has been a significant change to the

nature of the information presented in chapter 2.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.