# Shell FuelSave Diesel Euro 5 **B10**

Revision Date 18.08.2023 Print Date 19.08.2023 Version 2.1

# 1. IDENTIFICATION OF THE HAZARDOUS CHEMICALS AND OF THE SUPPLIER

Shell FuelSave Diesel Euro 5 B10 Product name

Product code 002D7220

Manufacturer or supplier's details

Shell Malaysia Trading Sdn Bhd Supplier

> (196501000279) Menara Shell

No. 211 Jalan Tun Sambanthan

50470 Kuala Lumpur

Malaysia

Telephone : (+60) 3 2385 2888

: Fuels: 1 300 13 7303 - Lubricants: 1 300 13 7800 Telefax

Emergency telephone : 1800 88 3899

number

**Contact for Safety Data** Sheet

please email fuelSDS@shell.com

Recommended use of the chemical and restrictions on use

Recommended use : Automotive gas oil.

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

If you have any enquiries about the content of this SDS

cleanser.

# 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

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

Specific target organ toxicity -

repeated exposure

Hazardous to the aquatic

environment - chronic hazard

Category 2 (Blood, thymus, Liver)

: Category 2

#### **GHS** label elements

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Hazard pictograms









Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:

H226 Flammable liquid and vapour.

**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:** 

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

#### Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

# Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician. P331 Do NOT induce vomiting.

#### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

# 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.

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# 3. COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

Substance / Mixture : Mixture

Chemical nature : A complex combination of hydrocarbons produced by the

distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163°C to 357°C

(325°F to 675°F).

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

species are present.

#### **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (% w/w)
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 Chronic2; H411	90
Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel)	67762-38-3		10

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 (% w/w)
Naphthalene	91-20-3	0 - 0.5

# 4. FIRST-AID MEASURES

General advice : Not expected to be a health hazard when used under normal

conditions.

If inhaled : Call emergency number for your location / facility.

Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting,

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Revision Date 18.08.2023 Print Date 19.08.2023 Version 2.1 or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to the nearest medical facility. Remove contaminated clothing. Immediately flush skin with In case of skin contact 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. Obtain medical attention even in the absence of apparent wounds. In case of eye contact : Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue If persistent irritation occurs, obtain medical attention. If swallowed : Call emergency number for your location / facility. 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. Respiratory irritation signs and symptoms may include a Most important symptoms and effects, both acute and temporary burning sensation of the nose and throat, coughing, delayed and/or difficulty breathing. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. 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. Liver damage may be indicated by loss of appetite, jaundice (yellowish skin and eye colour), fatigue, bleeding or easy bruising and sometimes pain and swelling in the upper right abdomen. Damage to blood-forming organs may be evidenced by: a) fatigue and anaemia (RBC), b) decreased resistance to infection, and/or excessive bruising and bleeding (platelet effect).

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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 Call a doctor or poison control center for guidance.

Potential for chemical pneumonitis.

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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Hazchem Code : 3Y

# 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

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.

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 Section 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 Section 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

# Handling

**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

Section 8 of this Safety Data Sheet.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

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. Prevent spillages. Never siphon by mouth.

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

laundering.

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

**General Precautions** 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

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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 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 from 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).

IEC/TS 60079-32-1: Electrostatic hazards, guidance Ensure that all local regulations regarding handling and 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	TWA (Inhalable fraction and vapor)	100 mg/m3	ACGIH
Naphthalene	91-20-3	TWA	10 ppm 52 mg/m3	MY PEL
Naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	NIOSH REL
Naphthalene		ST	15 ppm 75 mg/m3	NIOSH REL
Naphthalene		TWA	10 ppm 50 mg/m3	OSHA Z-1
Naphthalene		TWA	10 ppm	ACGIH

# **Biological occupational exposure limits**

No biological limit allocated.

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#### **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.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Do not ingest. If swallowed, then seek immediate medical assistance

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#### 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 and particles [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 goggles may not be required and safety glasses may provide

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adequate eye protection.

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

risk of splashing, also wear an apron.

Thermal hazards : Not applicable

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 : Colourless to light coloured

Odour : Hydrocarbon

Odour Threshold : Data not available

pH : Not applicable

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Melting point/freezing point : Data not available

pour point -40 - -10 °C / -40 - 14 °F

Method: Unspecified

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

Flash point :  $>= 60 \, ^{\circ}\text{C} / >= 140 \, ^{\circ}\text{F}$ 

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 : 810 - 856 kg/m3 (15.0 °C / 59.0 °F)

Method: Unspecified

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-

octanol/water

: log Pow: ca. 2 - 15

Auto-ignition temperature : Data not available Auto-ignition temperature  $> 220 \,^{\circ}\text{C} / 428 \,^{\circ}\text{F}$ 

Decomposition temperature : Data not available

Viscosity

Viscosity, kinematic : Method: Unspecified

Not applicable

2 - 4.5 mm2/s (40.0 °C / 104.0 °F)

Method: Unspecified

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Explosive properties : Classification Code: Not classified

Oxidizing properties : Not applicable

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 anti-static additives can greatly influence the conductivity of a

liquid

# 10. STABILITY AND REACTIVITY

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

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

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representative of the product as a whole, rather than for

individual component(s).

Symptoms of Overexposure Respiratory irritation signs and symptoms may include a

temporary burning sensation of the nose and throat, coughing,

and/or difficulty breathing.

Skin irritation signs and symptoms may include a burning

sensation, redness, swelling, and/or blisters.

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

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

congestion, shortness of breath, and/or fever.

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. Liver damage may be indicated by loss of appetite, jaundice (vellowish skin and eye colour), fatigue, bleeding or easy bruising and sometimes pain and swelling in the upper right

abdomen.

Damage to blood-forming organs may be evidenced by: a) fatigue and anaemia (RBC), b) decreased resistance to infection, and/or excessive bruising and bleeding (platelet

effect).

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 Oral rat: > 5,000 mg/kg

Remarks: Low toxicity

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

Exposure time: 4 h

Remarks: Harmful if inhaled.

High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or

death.

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

Remarks: Low toxicity

#### Components:

Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Acute oral toxicity

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Remarks: Low toxicity LD50 > 5000 mg/kg

Acute inhalation toxicity : Remarks: Low toxicity if inhaled.

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

Acute dermal toxicity

Remarks: LD50 > 5000 mg/kg

Low toxicity

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

Acute toxicity (other routes of :

administration) Remarks: Not a respiratory irritant

# Skin corrosion/irritation

#### **Product:**

Remarks: Irritating to skin.

#### **Components:**

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Remarks: Not irritating to skin.

# Serious eye damage/eye irritation

# **Product:**

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

# **Components:**

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Remarks: Not irritating to eye.

# Respiratory or skin sensitisation

#### **Product:**

Remarks: Not a sensitiser.

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

# **Components:**

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Remarks: Not a sensitiser.

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

# Germ cell mutagenicity

#### **Product:**

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

#### **Components:**

Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

: Remarks: Non mutagenic

# Carcinogenicity

# **Product:**

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

#### Components:

Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification
Fuels, diesel	Carcinogenicity Category 2
Fatty acids, C16-18 and C18- unsatd., Me esters (FAME, Biodiesel)	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:** 

Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair

fertility.

# Components:

Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair

fertility.

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# STOT - single exposure

#### **Product:**

Remarks: Inhalation of vapours or mists may cause irritation to the respiratory system., High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

# **Components:**

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Remarks: Based on available data, the classification criteria are not met.

# STOT - repeated exposure

#### **Product:**

Target Organs: Blood, thymus, Liver

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

exposure.

# **Components:**

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Remarks: Based on available data, the classification criteria are not met.

# **Aspiration toxicity**

#### **Product:**

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

# Components:

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Not an aspiration hazard.

# **Further information**

#### **Product:**

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

# **Components:**

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

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

#### 12. ECOLOGICAL INFORMATION

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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

toxicity)

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

Toxic

Toxicity to crustacean (Acute

toxicity)

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

Toxic

Toxicity to algae/aquatic

plants (Acute toxicity)

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

Toxic

Toxicity to fish (Chronic

toxicity)

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

Toxicity to crustacean

(Chronic toxicity)

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

Toxicity to microorganisms

(Acute toxicity)

: Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Components:

Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Toxicity to fish (Acute : Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/Itoxicity)

Toxicity to crustacean (Acute

toxicity)

: Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to algae/aguatic plants (Acute toxicity)

: Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic

toxicity)

: Remarks: Data not available

Toxicity to

crustacean(Chronic toxicity)

: Remarks: Data not available

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# Persistence and degradability

#### **Product:**

Biodegradability : Remarks: Readily biodegradable., Not Persistent per IMO

criteria., International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distils at a

temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."

#### Components:

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Biodegradability : Remarks: Readily biodegradable.

Not Persistent per IMO criteria.

International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F)

and (b) at least 95% of which, by volume, distils at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."

# **Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: Contains constituents with the potential to

bioaccumulate.

Partition coefficient: n-

octanol/water Components:

: log Pow: ca. 2 - 15

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Bioaccumulation : Remarks: Does not have the potential to bioaccumulate

significantly.

# 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.

# **Components:**

# Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel) :

Mobility : Remarks: If product enters soil, one or more constituents will

be highly mobile and may contaminate groundwater.

#### Other adverse effects

no data available

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**Product:** 

Additional ecological

information

: Films formed on water may affect oxygen transfer and

damage organisms.

**Components:** 

Fatty acids, C16-18 and C18-unsatd., Me esters (FAME, Biodiesel):

Additional ecological

information

: Will exert oxygen demand when significant quantities enter

watercourses and may cause damage to aquatic life.

# 13 DISPOSAL INFORMATION

# **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.

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. This will result in soil and groundwater

contamination.

Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. 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.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

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.

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#### 14. TRANSPORTATION INFORMATION

# **National Regulations**

Hazchem Code : 3Y

# **International Regulations**

**ADR** 

UN number : 1202

Proper shipping name : DIESEL FUEL

Class : 3
Packing group : III
Labels : 3
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
Labels : 3
Marine pollutant : yes

# Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

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

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

needs to comply with in connection with transport.

#### 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.

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Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

OSHA 1994 and relevant regulations.

Factories and Machinery Act 1967 and relevant regulations.

Petroleum (Safety Measures) Act 1984.

Environmental Quality Act 1974 and regulation.

Road Transport (Construction & Use) Dangerous Goods Vehicles Rules 2015.

Motor Vehicles (Construction, Equipment and Use) (Use of Liquefied Petroleum Gas Fuel System in Motor Vehicles) Rules 1982 – P.U. (A) 392/82 under Road Transport Act, 1987.

#### 16. OTHER INFORMATION

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

H226	Flammable liq	uid and vapour.

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.

H411 Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Chronic Long-term (chronic) aquatic hazard

Asp. Tox. Aspiration hazard Carc. Carcinogenicity Flam. Liq. Flammable liquids Skin Irrit. Skin irritation

STOT RE Specific target organ toxicity - repeated exposure

#### **Abbreviations and Acronyms**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from

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Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### **Further information**

Training advice : Provide adequate information, instruction and training for

operators.

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

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

from the previous version.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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