

# Safety Data Sheet

## Shell V-Power Nitro+ Diesel

Version 2.0

Revision Date 08.07.2015

Print Date 21.07.2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Shell V-Power Nitro+ Diesel

Product code : 002D2561

#### 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 number : +632 8027600

**Email Contact for Safety Data Sheet** : If you have any enquiries about the content of this SDS please email [fuelSDS@shell.com](mailto: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 - repeated exposure : Category 2 (Blood, thymus, Liver)  
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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species are present.

### Hazardous components

| Chemical Name | CAS-No.    | Classification   | Concentration [%] |
|---------------|------------|--|-------------------|
| Fuels, diesel | 68334-30-5 | Flam. Liq.3; H226<br>Asp. Tox.1; H304<br>Acute Tox.4; H332<br>Skin Irrit.2; H315<br>Carc.2; H351<br>STOT RE2; H373<br>Aquatic Acute2; H401<br>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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The onset of respiratory symptoms may be delayed for 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.

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### 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 ( $\leq 1$  m/s until fill pipe submerged to twice its diameter, then  $\leq 7$  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).  
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.

### 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<br>245 mg/m3                            | PH OEL                           |
|               | Further information: Skin |                                    |  |                                  |
|               |                           | TWA                                | 50 ppm<br>245 mg/m3                            | OSHA Z-1                         |
|               |                           | TWA                                | 50 ppm   | ACGIH                            |
| Naphthalene   | 91-20-3                   | TWA                                | 10 ppm<br>50 mg/m3                             | PH OEL                           |



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|  |  |     |                                |          |
|--|--|-----|--------------------------------|----------|
|  |  | TWA | 10 ppm<br>50 mg/m <sup>3</sup> | OSHA Z-1 |
|  |  | 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 Sécurité, (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 non-perfumed 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.

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## 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 °F Method: 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)<br>Method: Unspecified   |
|  | <= 0.6 kPa (50.0 °C / 122.0 °F)<br>Method: Unspecified   |
| Relative vapour density                | : Data not available   |
| Relative density                       | : Data not available   |
| Density                                | : 840.0 kg/m <sup>3</sup> (15.0 °C / 59.0 °F)<br>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 mm <sup>2</sup> /s (40 °C / 104 °F)<br>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

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### 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.

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### 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).
- Information on likely routes of exposure : 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:
- Acute inhalation toxicity : LC 50 rat: > 1 - <=5 mg/l  
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.

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## 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 toxicity) :  
Remarks: Expected to be toxic:  
LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to crustacean (Acute toxicity) :  
Remarks: Expected to be toxic:  
LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to algae/aquatic :





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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.

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### 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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Labels : 3  
Marine pollutant : yes

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

Pollution category : Not applicable  
Ship type : Not applicable  
Product name : Not applicable  
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.

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## 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.

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## 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.  
H332 Harmful if inhaled.  
H351 Suspected of causing cancer.  
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  
Aquatic Chronic Chronic aquatic toxicity  
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 : 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.