MSDS# 401398EU

Version 6.0

Effective Date 08/06/2012 According to OSHA Hazard Communication Standard, 29 CFR

1910.1200

# **Material Safety Data Sheet**

# 1. MATERIAL AND COMPANY IDENTIFICATION

**Material Name** 

Ultra Low Sulfur Diesel Fuel 2 (S-15 ppm) Dved

Uses

Fuel for use in off-road diesel engines, boilers, furnaces and

other combustion equipment.

Manufacturer/Supplier

**Shell Oil Products US** 

PO BOX 4453

Houston, TX 77210-4453

USA

**MSDS** Request

877-276-7285

**Emergency Telephone Number** 

**Spill Information** 

: 877-242-7400

Health Information

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Identity** 

CAS No.

Concentration

Fuels, diesel, no.2

68476-34-6

100.00 %

Dyes and markers can be used to indicate tax status and prevent fraud. Contains/may contain full range straight run middle distillate, CAS # 68814-87-9. Contains/may contain light catalytic cracked distillate, CAS # 64741-59-9. Contains/may contain hydrotreated middle distillate, CAS # 64742-46-7. Contains organic sulfur compounds.

Contains Benzene, CAS # 71-43-2.

# 3. HAZARDS IDENTIFICATION

	Emergency	Overview
aranco and Odour	Deal 11: 11 11 1	

Appearance and Odour

Red. Liquid. Hydrocarbon.

**Health Hazards** 

Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. A component or components of this material may cause cancer. This product contains benzene which may cause leukaemia (AML - acute

myelogenous leukaemia). May cause MDS (Myelodysplastic

Syndrome).

Safety Hazards

Combustible liquid. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.

**Environmental Hazards** 

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Health Hazards** Inhalation

: Slightly irritating to respiratory system. Breathing of high vapour concentrations may cause central nervous system (CNS)

depression resulting in dizziness, light-headedness, headache

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and nausea.

**Skin Contact** 

: May cause moderate irritation to skin. Repeated exposure may

cause skin dryness or cracking.

**Eye Contact** 

: May cause slight irritation to eyes.

Ingestion

: Harmful: may cause lung damage if swallowed.

Other Information

A component or components of this material may cause cancer. This product contains benzene which may cause leukaemia (AML - acute myelogenous leukaemia). May cause MDS

(Myelodysplastic Syndrome).

Signs and Symptoms

: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after

exposure.

Defatting dermatitis signs and symptoms may include a burning

sensation and/or a dried/cracked appearance.

Skin irritation signs and symptoms may include a burning

sensation, redness, swelling, and/or blisters.

**Aggravated Medical** 

Conditions

: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this

material: Skin.

**Environmental Hazards** 

Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Additional Information

This product is intended for use in closed systems only.

## 4. FIRST AID MEASURES

Inhalation

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

to nearest medical facility for additional treatment.

**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.

**Eye Contact** 

Flush eye with copious quantities of water. If persistent

irritation occurs, obtain medical attention.

Ingestion

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.

Advice to Physician

Treat symptomatically. Potential for chemical pneumonitis.

### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point

: > 52 °C / 126 °F (ASTM D-93 / PMCC)

Upper / lower

0.5 - 4.4 %(V)

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Flammability or **Explosion limits** 

Auto ignition temperature :

Specific Hazards

260 °C / 500 °F

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. 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.

Suitable Extinguishing

Media

Unsuitable Extinguishing

Protective Equipment for

**Firefighters** 

Do not use water in a jet.

Wear full protective clothing and self-contained breathing

Foam, water spray or fog. Dry chemical powder, carbon

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

apparatus.

**Additional Advice** Keep adjacent containers cool by spraying with water.

#### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations. Evacuate the area of all nonessential personnel. Ventilate contaminated area thoroughly.

#### Protective measures

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. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour 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.

### Clean Up Methods

For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, 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. Shovel into a suitable clearly marked container for disposal or reclamation in

accordance with local regulations.

**Additional Advice** 

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

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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. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Center at (800) 424-8802. Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Center at (800) 424-8802. This material is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA.

#### 7. HANDLING AND STORAGE

**General Precautions** 

: Avoid breathing vapours or 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 Material 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. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. 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. For comprehensive advice on handling, product transfer, storage and tank cleaning refer to the product supplier.

Handling

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. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.

Storage

Drum and small container storage: Drums should be stacked to a maximum of 3 high. Use properly labelled and closeable 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. 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.

Product Transfer

Avoid splash filling. Wait 2 minutes after tank filling (for tanks such as those on road tanker vehicles) before opening hatches

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or manholes. Wait 30 minutes after tank filling (for large storage tanks) before opening hatches or manholes. Keep containers closed when not in use. Do not use compressed air for filling, discharging or handling. 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.

#### **Recommended Materials**

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 Materials**

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.

#### Container Advice

: Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform

similar operations on or near containers.

### **Additional Information**

Ensure that all local regulations regarding handling and storage

facilities are followed.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3	Notation
Fuels, diesel, no.2	ACGIH	TWA(Inhalable fraction and vapor.)		100 mg/m3	as total hydrocarbons
Fuels, diesel, no.2	ACGIH	SKIN_DES(In halable fraction and vapor.)			Can be absorbed through the skin.as total hydrocarbons
Benzene	ACGIH	TWA	0.5 ppm		
Benzene	ACGIH	STEL	2.5 ppm		

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Benzene	ACGIH	SKIN_DES			Can be absorbed through the skin.
Benzene	OSHA	TWA	1 ppm		
Benzene	OSHA	STEL	5 ppm		
Benzene	OSHA	OSHA_ACT	0.5 ppm		
Benzene	OSHA Z1A	TWA	1 ppm		
Benzene	OSHA Z1A	STEL	5 ppm		
Benzene	SHELL IS	TWA	0.5 ppm	1.6 mg/m3	
Benzene	SHELL IS	STEL	2.5 ppm	8 mg/m3	
Benzene	OSHA Z2	TWA	10 ppm		
Benzene	OSHA Z2	Ceiling	25 ppm		
Benzene	OSHA Z2	MAX. CONC	50 ppm		

#### **Additional Information**

In the absence of a national exposure limit, the American Conference of Governmental Industrial Hygienists (ACGIH) recommends the following values for Diesel Fuel: TWA - 100 mg/m3 Critical effects based on Skin and Irritation. Skin notation means that significant exposure can also occur by absorption of liquid through the skin and of vapour through the eyes or mucous membranes. Shell has adopted as Interim

Standards the OSHA Z1A values that were established in 1989

and later rescinded. SHELL IS is the Shell Internal Standard.

#### **Exposure Controls**

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. Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Local

exhaust ventilation is recommended. Eye washes and showers

for emergency use.

**Personal Protective** Equipment **Respiratory Protection**  Personal protective equipment (PPE) should meet

recommended national standards. Check with PPE suppliers. 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

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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 airfiltering respirators are suitable, select an appropriate combination of mask and filter. All respiratory protection equipment and use must be in accordance with local

regulations.

Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory

Protection Standard, 29 CFR 1910.134.

Personal hygiene is a key element of effective hand care. **Hand Protection** 

> 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. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.

**Eye Protection** 

Chemical splash goggles (chemical monogoggles).

**Protective Clothing** 

Chemical resistant gloves/gauntlets, boots, and apron (where

risk of splashing).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

: Red. Liquid. Appearance Odour : Hydrocarbon.

Flash point : > 52 °C / 126 °F (ASTM D-93 / PMCC)

: 0.5 - 4.4 %(V)

Upper / lower Flammability

or Explosion limits

: 260 °C / 500 °F Auto-ignition temperature

Specific gravity : 0.85

## 10. STABILITY AND REACTIVITY

Stable under normal conditions of use. Stability

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

Materials to Avoid Strong oxidising agents. Hazardous Decomposition : Hazardous decomposition products are not expected to form

during normal storage. **Products** 

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or

thermal or oxidative degradation.

#### 11. TOXICOLOGICAL INFORMATION

Information given is based on product data, a knowledge of the **Basis for Assessment** 

components and the toxicology of similar products.

**Acute Oral Toxicity** Low toxicity: LD50 >2000 mg/kg, Rat

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Aspiration into the lungs when swallowed or vomited may

cause chemical pneumonitis which can be fatal.

Acute Dermal Toxicity
Acute Inhalation Toxicity

Low toxicity: LD50 >2000 mg/kg, Rabbit Low toxicity: LC50 >20 mg/l / 1.00 h, Rat

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

death.

**Skin Irritation** 

: May cause moderate skin irritation (but insufficient to classify).

Prolonged/repeated contact may cause defatting of the skin

which can lead to dermatitis.

Eye Irritation

Respiratory Irritation

Sensitisation

Repeated Dose Toxicity

Slightly irritating.Slightly irritating.

Not a skin sensitiser.

Kidney: caused kidney effects in male rats which are not

considered relevant to humans

Mutagenicity Carcinogenicity

Mutagenic; positive in in-vivo and in-vitro assays.

Repeated skin contact has resulted in irritation and skin cancer

in animals.

Known human carcinogen. (Benzene)

May cause leukaemia (AML - acute myelogenous leukemia).

(Benzene)

Material	:	Carcinogenicity Classification
Fuels, diesel, no.2	:	ACGIH Group A3: Confirmed animal carcinogen with unknown
		relevance to humans.
Hydrotreated Middle Distillate	:	ACGIH Group A4: Not classifiable as a human carcinogen.
Hydrotreated Middle Distillate	:	IARC 3: Not classifiable as to carcinogenicity to humans.
Distillates (petroleum), light catalytic cracked	:	IARC 3: Not classifiable as to carcinogenicity to humans.
Benzene		ACGIH Group A1: Confirmed human carcinogen.
Benzene	:	NTP: Known To Be Human Carcinogen.
Benzene	:	IARC 1: Carcinogenic to humans.
Benzene	:	OSHASP: Cancer hazard.

Reproductive and Developmental Toxicity Additional Information : Not expected to be a developmental toxicant.

Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.

(Toluene)

Abuse of vapours has been associated with organ damage and

death. (Toluene)

May cause MDS (Myelodysplastic Syndrome). (Benzene)

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# 12. ECOLOGICAL INFORMATION

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.

**Acute Toxicity** 

Toxic: LL/EL/IL50 1-10 mg/l (to aquatic organisms) LL/EL50

expressed as the nominal amount of product required to

prepare aqueous test extract.

Mobility

Floats on water. Partly evaporates from water or soil surfaces, but a significant proportion will remain after one day. If it enters soil, it will adsorb to soil particles and will not be mobile. Large

volumes may penetrate soil and could contaminate

groundwater. Contains volatile constituents.

Persistence/degradability

Persists under anaerobic conditions. Major constituents are

inherently biodegradable. The volatile constituents will oxidize

rapidly by photochemical reactions in air.

Bioaccumulation Other Adverse Effects

Contains constituents with the potential to bioaccumulate.

Films formed on water may affect oxygen transfer and damage

organisms.

## 13. DISPOSAL CONSIDERATIONS

**Material Disposal** 

Recover or recycle if possible. 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. Do not dispose into the environment, in drains or in water courses. Do not dispose of tank water bottoms by allowing them to drain into the ground. 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.

**Container Disposal** 

Send to drum recoverer or metal reclaimer. Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. 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.

Local Legislation

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

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**US Department of Transportation Classification (49CFR)** 

Identification number

UN 1202 Diesel fuel

Proper shipping name Class / Division

3

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Packing group

111

Emergency Response Guide

128

No.

**IMDG** 

Identification number

UN 1202

Proper shipping name

**DIESEL FUEL** 

Class / Division

3

Packing group Marine pollutant:

Yes

IATA (Country variations may apply)

Identification number

UN 1202

Proper shipping name

Diesel fuel

Class / Division Packing group

3 III

#### 15. REGULATORY INFORMATION

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

## Federal Regulatory Status

**Additional Information** 

IARC has classified diesel exhaust emissions as a Class 1 carcinogen - carcinogenic to humans. Steps should be taken to prevent personal exposure to diesel exhaust emissions.

#### Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

Ultra Low Sulfur Diesel Fuel 2 (S-15

Reportable quantity: 5000 lbs

ppm) Dyed ()

Benzene (71-43-2)

Reportable quantity: 10 lbs

Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore

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releases to the environment are not reportable under CERCLA.

## Clean Water Act (CWA) Section 311

Benzene (71-43-2)

Reportable quantity: 10 lbs

Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Center at (800) 424-8802.

## SARA Hazard Categories (311/312)

Immediate (Acute) Health Hazard. Delayed (Chronic) Health Hazard. Fire Hazard.

# SARA Toxic Release Inventory (TRI) (313)

Benzene (71-43-2)

# State Regulatory Status

# California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product contains a chemical known to the State of California to cause cancer. Known to the State of California to cause birth defects or other reproductive harm.

#### New Jersey Right-To-Know Chemical List

Fuels, diesel, no.2 (68476-34-6)

Hydrotreated Middle Distillate (64742-46-7)

Listed. Listed.

Benzene (71-43-2)

Listed.

# Pennsylvania Right-To-Know Chemical List

Fuels, diesel, no.2 (68476-34-6)

Hydrotreated Middle Distillate (64742-46-7)

Benzene (71-43-2)

Listed. Listed.

Special hazard.

Environmental hazard.

Listed.

## 16. OTHER INFORMATION

**Additional Information** 

: This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety

matters.

NFPA Rating (Health,

: 1, 2, 0

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Fire, Reactivity)

**MSDS Version Number** 

: 6.0

**MSDS Effective Date** 

08/06/2012

**MSDS** Revisions

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

from the previous version.

**MSDS** Regulation

The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Uses and Restrictions** 

This product must not be used in applications other than those recommended 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.

**MSDS** Distribution

The information in this document should be made available to

all who may handle the product.

Disclaimer

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to

be obtained from the use of the product.