

# ULTRA LOW SULPHUR DIESEL/GAS OIL



## MATERIAL DATA SHEET

### ULTRA LOW SULPHUR DIESEL/GAS OIL BS 2869: CLASS A2 & D

#### 1 IDENTIFICATION OF THE SUBSTANCE & OF THE COMPANY / UNDERTAKING

##### IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:

Aires Ultra Low Sulphur Gas Oil is a middle distillate type fuel for heating boilers and gas turbines, stationary diesel engines or in automotive vehicles that are only used on private roads.

##### Contains:

Fuels, Diesel: CAS No. 68334-30-5

EINECS No. 269-822-7

##### COMPANY IDENTIFICATION:

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#### 2 COMPOSITION / INFORMATION ON INGREDIENTS

Complex mixtures of distillate hydrocarbons mainly paraffinic, naphthenic and aromatic in the range C10-C28. Catalytically and thermally cracked hydrocarbons may be present. Included may be small concentrations of cetane number improvers (organic nitrates), flow improvers (ethylene vinyl acetate copolymers), a lubricity additive (long-chain ester), silicone anti-foam additives and a HM C&E marker/dye.

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### 3 HAZARDS IDENTIFICATION

These oils, particularly when catalytically and thermally cracked hydrocarbons are present, may contain polycyclic aromatic hydrocarbons (PCAs); some PCAs have been shown to have a potential to cause skin cancer (category 3 carcinogen).

There are small concentrations of cetane no. improvers, flow improvers, anti-foam and detergent additives and marker/dye that are not considered to represent a health risk.

Injection of fuel under the skin may have serious medical effects.

May be dangerous for the environment.

### 4 FIRST AID MEASURES

#### TYPE OF EXPOSURE

##### Ingestion

The swallowing of small amounts is unlikely to have adverse effects; larger amounts may cause irritation with diarrhoea and vomiting.

##### Skin

Unlikely to cause irritation on single contact. Prolonged or repeated contact may cause dermatitis that could eventually lead to irreversible skin disorders.

Injection of fuel under pressure through the skin may have serious effects that at first may not seem serious but, within hours, may become very painful.

##### Eyes

May cause irritation with short-term redness and stinging.

##### Inhalation

Fumes or vapour may cause irritation to eyes and mucous membranes, and drowsiness leading to loss of consciousness.

#### FIRST AID MEASURES

##### Ingestion

Wash mouth out with water and give water to drink. If a large amount has been swallowed get medical advice. DO NOT INDUCE VOMITING BECAUSE OF THE DANGER OF ASPIRATION.

##### Skin

Wash skin as soon as possible with soap and water. Change contaminated clothing and launder before reuse. Get medical advice if irritation persists.

Any injection of fuel under the skin should be considered an EMERGENCY - get Medical Advice URGENTLY.

##### Eyes

Wash out thoroughly with large amounts of water. If redness and/or irritation continue get medical advice.

##### Inhalation

If inhalation of vapour causes irritation or drowsiness remove to fresh air. Get medical advice if the symptoms continue.

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### 5 FIRE FIGHTING MEASURE

Extinguish with Dry Powder, Foam or Water Fog. For small fires use CO<sub>2</sub> Do not use water jets

Note - Flash Point 60°C.

Fires in closed or confined spaces should be tackled by trained personnel who should wear breathing apparatus.

### 6 ACCIDENTAL RELEASE MEASURES

Treat any spillage as a fire hazard.

Spray, vapour or mist can be a potential fire or explosion hazard.

May cause damage to surfaces making them SLIPPERY.

Contain spillage - do not wash spillage down drain.

Absorb using absorbent clay, diatomaceous clay or other suitable absorbent.

### 7 HANDLING AND STORAGE

#### 7.1 Handling

Where exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION. Ensure good ventilation.

#### 7.2 Storage

The design, construction and maintenance of bulk storage and handling facilities are covered by codes of practice published by the Institute of Petroleum, British Standards Institution and the Health and Safety Executive. Drums should be stored on their sides on racks preferably under cover, out of direct sunlight, in well-ventilated conditions.

Other types of containers should be stored under cover out of direct sunlight, in well-ventilated conditions. Care should be taken to avoid over-stacking.

## ULTRA LOW SULPHUR DIESEL/GAS OIL

### 8 EXPOSURE CONTROL / PERSONAL PROTECTION

Where prolonged or repeated exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION.

**Respiratory protection** - Unlikely to be required in normal use but ensure good ventilation - note Flash Point 60°C mm. It is suggested that exposure is kept well below the level of Oil Mist quoted in the current HSE Guidance Note EH40:

**Long-term exposure limit** - (8 hour TWA reference period) 5 milligrams per cubic metre.

**Short term exposure limit** - (15 minute reference period) 10 milligrams per cubic metre.

**Hand and skin protection** - Hand and skin protection is strongly recommended.

**Eye protection** - eye protection is recommended.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	dyed red
<b>Density at 15°C</b>	0.82-0.87
<b>Boiling Range °C</b>	150-385
<b>Flash Point (PMC) °C</b>	60 min
<b>Viscosity, Kinematic at 40 °C cSt</b>	1.5-7.0

### 10 STABILITY AND REACTIVITY

**Conditions to Avoid** - heat (Note: Flash Point 60°C mm).

**Materials to Avoid** - may react with strong oxidising materials.

**Hazardous Decomposition Products** - thermal decomposition may lead to the formation of a multiplicity of compounds some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide may be formed.

### 11 TOXICOLOGICAL INFORMATION

Toxicity following single exposure (orally, dermally or by inhalation) to gas oils is of a low order. When gas oils contain cracked components they are classified as category 3 carcinogens. With the use of good occupational and hygiene practices any risk will be minimal.

## ULTRA LOW SULPHUR DIESEL/GAS OIL

### 12 ECOLOGICAL INFORMATION

Expected to harm aquatic organisms, may cause long-term effects in the aquatic environment. May bio accumulate; films formed on water may affect oxygen transfer and damage organisms. Likely to biodegrade slowly.

### 13 DISPOSAL CONSIDERATIONS

Dispose by incineration or by methods approved by Local Authority. Do not discharge into the public drainage system, or marine and inland waterways

### 14 TRANSPORT INFORMATION

#### TRANSPORT CLASSIFICATION

HAZCHEM Code: 3Y  
SYMBOL: Flammable Liquid  
UN: Flammable liquid, Class 3 (111)  
UN Number (Substance Identification Number): 1202  
UN Packing Group: 111 MO Hazard Class: 3.3  
ICAO Hazard Class: 3.3 IATA Hazard Class 3  
ADR/RID Hazard Class: 3 - 32 (c)

### 15 REGULATORY INFORMATION

#### LABELLING

Symbol: Black St. Andrew's cross on orange square  
Classification: Harmful. Contains Catalytically Cracked Oils  
R40 - Harmful. Possible risk of irreversible effects  
R65 - Harmful: May cause lung damage if swallowed  
R66 - Repeated exposure may cause skin dryness or cracking  
  
S43 - In case of fire use foam/dry powder/CO<sub>2</sub>/Halon. Never use water.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)  
S53 - Avoid exposure - obtain special instruction before use  
S61 - Avoid release to the environment. Refer to special instructions/Safety Data Sheet  
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

ULTRA LOW SULPHUR DIESEL/GAS OIL

16 OTHER INFORMATION

Further information can be found in Health and Safety Executive publications, a list of which may be made available on request.

LEGAL NOTICE

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