Dosbarthwyr Tanwyddau Olew

G. D. Jones A'i fab And Son

Fuel Oil Distributors

Gas Oil 10ppm Version 1.0 Effective Date 18.10.2010 Regulation 1907/2006/EC

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Material Name: Gas Oil 10ppm

Uses: Fuel for use in off-road diesel engines, boilers, gas turbines

and other combustion equipment.

Supplier: G D Jones and Son

Parciau Llanddaniel GAERWEN Ynys Mon LL60 6HB

Telephone: +44 (0) 1248 421333 **Fax**: +44 (0) 1248 422185

Email Contact for

MSDS

If you have any enquiries about the content of this MSDS

please email mail@gdjones.co.uk

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Number : +44-(0) 151-350-4595

2. HAZARDS IDENTIFICATION

EC Classification: Carcinogenic, category 3.

Harmful.

Dangerous for the environment.

Health Hazards: Slightly irritating to respiratory system.

Breathing of high vapour concentrations may cause central

nervous system (CNS) depression resulting in dizziness, light headedness, headache and nausea. Repeated exposure may cause skin dryness or cracking. May cause moderate irritation to skin. Harmful: may cause lung

damage if swallowed. Limited evidence of carcinogenic effect.

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.

Safety Hazards: 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 autoignition temperature, where vapour concentrations are within the flammability range. Not classified as flammable but will burn. 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.

Additional Information: This product is intended for use in closed systems only.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation Description: 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

catalytically cracked oils in which polycyclic aromatic compounds, mainly 3-ring but some 4- to 6-ring species are present. Contains

methyl esters from lipid sources.

Hazardous Components

Chemical Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
Fuel Oil no. 2	68476-30-2	270-671-4	Xn, N	R40; R65	< 100.00 %
				R66; R51/53	

Additional Information: Refer to chapter 16 for full text of EC R-phrases. Dyes and markers can be used to indicate tax status and prevent fraud.

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 (37°C), shortness of breath, chest

congestion or continued coughing or wheezing.

Advice to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards: 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: 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 water in a jet.

Protective Equipment for

Firefighters : Wear full protective clothing and self-contained breathing 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 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.

7. HANDLING AND STORAGE

General Precautions:

Avoid breathing vapours or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For quidance 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 wellventilated 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. The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Vapours from tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a suitable vapour treatment system. Keep in a bunded area with a sealed (low permeability) floor, to provide containment against spillage. Prevent ingress of water.

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. 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

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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: Exposure to this product should be reduced as low as reasonably

practicable. Reference should be made to the Health and Safety Executive's publication "COSHH Essentials". Ensure that all local regulations regarding handling and storage facilities are followed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

Occupational Exposure Limits

None established.

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.

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:

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 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.

Hand Protection: 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. 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. Select gloves tested to a relevant standard (e.g. Europe EN374, US F739). When prolonged or frequent repeated contact occurs, Nitrile gloves may be suitable. (Breakthrough time of > 240 minutes.) For incidental contact/splash protection Neoprene, PVC gloves may be suitable.

Eye Protection: Chemical splash goggles (chemical monogoggles). Approved to EU

Standard EN166.

Protective Clothing: Chemical resistant gloves/gauntlets, boots, and apron (where

risk of splashing).

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.

Environmental Exposure

Controls: Local guidelines on emission limits for volatile substances must

be observed for the discharge of exhaust air containing vapour.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Red. Liquid.
Odour : Hydrocarbon.

Initial Boiling Point and

Boiling Range : $170 - 390 \degree C / 338 - 734 \degree F$ Flash point : $> 55 \degree C / 131 \degree F \text{ (Abel)}$

Upper / lower Flammability

or Explosion limits : 1.0 - 6.0 %(V)Auto-ignition temperature : > 220 % / 428 %

Vapour pressure : < 0.1 hPa at 20 °C / 68 °F

Density : 0.82 - 0.845 g/cm3 at 15 °C / 59 °F

n-octanol/water partition

coefficient (log Pow) : 3 - 6

Kinematic viscosity : 2 - 4.5 mm2/s at 40 °C / 104 °F

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

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

Materials to Avoid : 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.

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

Aspiration into the lungs when swallowed or vomited may cause

chemical pneumonitis which can be fatal. Low toxicity: LD50 >2000 mg/kg. Rabbit

Acute Dermal Toxicity: Acute Inhalation Toxicity: Low toxicity: LC50 >5 mg/l / 4 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.

Slightly irritating. Eve Irritation: Respiratory Irritation: Slightly irritating. Sensitisation: Not a skin sensitiser.

Repeated Dose Toxicity: Kidney: caused kidney effects in male rats which are not considered

relevant to humans

Mutagenicity: In-vitro mutagenicity studies show that mutagenic activity is related

to 4-6 ring polycyclic aromatic content.

Carcinogenicity: Limited evidence of carcinogenic effect.

Repeated skin contact has resulted in irritation and skin cancer

in animals.

Reproductive and

Developmental Toxicity: Not expected to be a developmental toxicant.

12. ECOLOGICAL INFORMATION

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. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

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. Large volumes may penetrate soil and could contaminate groundwater. Contains

volatile constituents.

Persistence/degradability: Major constituents are inherently biodegradable. The volatile

constituents will oxidize rapidly by photochemical reactions in air.

Bioaccumulation: Contains constituents with the potential to bioaccumulate.

Other Adverse Effects: 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. Comply with any local recovery or waste disposal regulations.

Local Legislation: EU Waste Disposal Code (EWC): 13 07 01 fuel oil and diesel.

The number given to waste is associated with the appropriate usage. The user must decide if their particular use results in another waste code being assigned. 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.

Hazardous Waste (England and Wales) Regulations 2005.

14. TRANSPORT INFORMATION

ADR

Class : 3
Packing group : III
Classification code : F1
Hazard identification no. : 30
UN No. : 1202
Danger label (primary risk) : 3
Proper shipping name : GAS OIL

RID

Class : 3
Packing group : III
Classification code : F1
Hazard identification no. : 30
UN No. : 1202
Danger label (primary risk) : 3
Proper shipping name : GAS OIL

ADNR

Class : 3
Packing group : III
Classification code : F1
UN No. : 1202
Danger label (primary risk) : 3

Danger label (subsidary

risk) : N2

CMR F

Proper shipping name : GAS OIL

IMDG

Identification number : UN 1202 Proper shipping name : GAS OIL

Class / Division : 3
Packing group : III
Marine pollutant: : Yes

IATA (Country variations may apply)

UN No. : 1202 Proper shipping name : Gas oil Class / Division : 3 Packing group : III

15. REGULATORY INFORMATION

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

EC Classification : Carcinogenic, category 3. Harmful. Dangerous for the

environment.

EC Symbols : Xn Harmful.

N Dangerous for the environment.

EC Risk Phrases : R40 Limited evidence of carcinogenic effect.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking. R51/53 Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

EC Safety Phrases : S2 Keep out of the reach of children.

S36/37 Wear suitable protective clothing and gloves. S61 Avoid release to the environment. Refer to special

instructions/Safety data sheets.

S62 If swallowed, do not induce vomiting: seek medical advice

immediately and show this container or label.

Classification triggering

Components

: Contains gas oil, unspecified.

Other Information : Environmental Protection Act 1990 (as amended). Health and

Safety at Work Act 1974. Consumers Protection Act 1987. Control of Pollution Act 1974. Environmental Act 1995. Factories Act 1961. Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations. Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. Control of Substances Hazardous to Health Regulations 1994 (as amended). Road Traffic (Carriage of Dangerous Substances in Packages) Regulations. Merchant

Shipping (Dangerous Goods and Marine Pollutants)

Regulations. Road Traffic (Carriage of Dangerous Substances in Road Tankers in Tank Containers) Regulations. Road Traffic (Training of Drivers of Vehicles Carrying Dangerous Goods) Regulations. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations. Health and Safety (First Aid) Regulations 1981. Personal Protective Equipment (EC

Directive) Regulations 1992. Personal Protective Equipment at

Work Regulations 1992.

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.

R-phrase(s)

R40 Limited evidence of carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

MSDS Version Number : 1.0

MSDS Effective Date : 18.10.2010

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

from the previous version.

MSDS Regulation : Regulation 1907/2006/EC

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: 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.