

	<b>SAFETY DATA SHEET</b>	Page : 1
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Commercial Product Name : DERV  
 Chemical name of the substance : DERV  
 Specific use(s) : Fuel  
 Company : Topaz Energy  
 Topaz House Beech Hill Clonskeagh  
 -Dublin 4, Ireland  
 Tel.:+353 1 202 8888  
 Fax:+353 1 203 9888  
 E-mail:safetydatasheets@topazenergy.ie  
 Emergency telephone number : +353 1 808 8232

## 2. HAZARDS IDENTIFICATION

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.



Xn : Harmful



N : Dangerous for the environment

Most important hazards : R20 - Harmful by inhalation.  
 R38 - Irritating to skin.  
 R65 - Harmful: may cause lung damage if swallowed.  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLP-Classification : The product is classified as dangerous in accordance with Directive 1272/2008/EEC.



Signal word : Danger

CLP Hazard statements : H226 - Flammable liquid and vapour.  
 H304 - May be fatal if swallowed and enters airways.  
 H315 - Causes skin irritation.  
 H332 - Harmful if inhaled.  
 H411 - Toxic to aquatic life with long lasting effects.

Main symptoms  
 Inhalation : May cause irritation of respiratory tract.  
 Effects of breathing high concentrations of vapour may include: headache, nausea, dizziness  
 Inhalation of high vapour concentrations can cause CNS-depression and

	<b>SAFETY DATA SHEET</b>	Page : 2
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

	narcosis.
Skin contact	: Irritating to skin. Redness Repeated exposure may cause skin dryness or cracking.
Eye contact	: May cause eye irritation.
Ingestion	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.
Environmental properties	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Values (%)	CAS no	EC No	EC Index	Symbol(s):	R-phrases(s)
Distillates (petroleum), hydrotreated middle		64742-46-7	265-148-2	649-221-00-X	Xn	R20, R38, R65

Full text of R-phrases: See section 16.

Substance name	Values (%)	CAS no	EC No	EC Index	CLP pictograms	CLP Hazard statements
Distillates (petroleum), hydrotreated middle		64742-46-7	265-148-2	649-221-00-X	GHS08,GHS07,GHS09	H304,H315, H332,H411

Full text of the H-statements: See section 16.

### 4. FIRST AID MEASURES

First aid measures

Inhalation	: <i>May cause irritation of respiratory tract. - Effects of breathing high concentrations of vapour may include: headache, nausea, dizziness- Inhalation of high vapour concentrations can cause CNS-depression and narcosis.</i> Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep at rest.
Skin contact	: <i>Irritating to skin.- Redness- Repeated exposure may cause skin dryness or cracking.</i> Take off contaminated clothing and shoes immediately. Wash immediately with lots of water (15 minutes)/shower Wash off with soap and water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Eye contact	: <i>May cause eye irritation.</i> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If pain persists, call a physician.
Ingestion	: <i>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.- Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.</i>

	<b>SAFETY DATA SHEET</b>	Page : 3
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

Additional advice : Call a physician immediately.  
Do NOT induce vomiting.  
Rinse mouth.  
Drink plenty of water.  
: Never give anything by mouth to an unconscious person.  
Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Fire Hazard : Combustible material

Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Water spray  
Foam  
Use water spray to cool unopened containers.

Extinguishing media which shall not be used for safety reasons : High volume water jet

Specific hazards : Temperature above flashpoint: higher fire/explosion hazard  
Vapours may form explosive mixtures with air.  
Burning produces noxious and toxic fumes.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Sulphur oxides

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Wear personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.  
Avoid contact with skin and eyes.  
Do not breathe vapours or spray mist.  
Wear personal protective equipment.  
See also section 8.

Environmental precautions : Prevent product from entering drains.

Methods for cleaning up : Remove all sources of ignition.  
Take precautionary measures against static discharges.  
Ensure adequate ventilation.  
Prevent further leakage or spillage if safe to do so.  
Dam up.  
Soak up with inert absorbent material.  
Sweep up and shovel into suitable containers for disposal.  
Collect and dispose of waste product at an authorised disposal facility.  
Dispose of in accordance with local regulations.  
Local authorities should be advised if significant spillages cannot be contained.

	<b>SAFETY DATA SHEET</b>	Page : 4
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

## 7. HANDLING AND STORAGE

- Storage** : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Store in original container.  
Keep in a banded area.  
Keep away from open flames, hot surfaces and sources of ignition.  
Do not store near or with any of the incompatible materials listed in section 10.  
Keep away from food, drink and animal feedingstuffs.
- Handling** : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Do not use pressure to empty drums.  
Do not smoke.  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapours or spray mist.  
Wear personal protective equipment.  
See also section 8.  
Ensure adequate ventilation.  
When using do not eat or drink.  
Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.  
Do not burn, or use a cutting torch on, the empty drum.
- Packaging material** : metal containers, glass, Plastic jerrican
- Specific use(s)** : Fuel

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal protective equipment**
- Respiratory protection** : In case of insufficient ventilation wear suitable respiratory equipment.  
respirator with A filter (type A1/A2/A3  
Wear a positive-pressure supplied-air respirator.  
(in case of higher concentration)
- Hand protection** : Protective gloves  
Nitrile rubber  
Viton (R)  
EN374  
The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
- Eye protection** : Safety glasses with side-shields conforming to EN166  
Goggles
- Skin and body protection** : Overalls, apron and boots recommended.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and immediately after handling the product.  
When using, do not eat, drink or smoke.  
Remove and wash contaminated clothing before re-use.  
Keep working clothes separately.
- Engineering measures** : Provide sufficient air exchange and/or exhaust in work rooms.
- Environmental exposure controls** : Do not flush into surface water or sanitary sewer system.

	<b>SAFETY DATA SHEET</b>	Page : 5
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

Exposure limit(s)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: red
Odour	: petroleum hydrocarbon odour
pH	: not applicable
Boiling point/boiling range	: 180 - 390 °C
Melting point/range	: no data available
Flash point	: > 61°C
Decomposition temperature	: no data available
Autoignition temperature	: 250 °C
Explosive properties	: LEL 0,5 vol% - UEL 7 vol %
Oxidizing properties	: no data available
Evaporation rate	: no data available
Vapour pressure	: < 1 hPa @ 20°C
Vapour density	: > 1
Water solubility	: insoluble
Viscosity	: 1,5 - 5 mm <sup>2</sup> /s @ 40°C
Density	: 0,82 - 0,88 g/cm <sup>3</sup> @ 15°C
Partition coefficient: n-octanol/water	: > 3

## 10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Hazardous decomposition products	: No decomposition if stored and applied as directed. Burning produces noxious and toxic fumes. Possible decomposition products are: Carbon oxides Sulphur oxides
Incompatible materials	: Strong acids and oxidizing agents
Conditions to avoid	: Heat, flames and sparks. Exposure to sunlight.

## 11. TOXICOLOGICAL INFORMATION

General Information

Acute toxicity

Inhalation	: May cause irritation of respiratory tract. Effects of breathing high concentrations of vapour may include: headache, nausea, dizziness Inhalation of high vapour concentrations can cause CNS-depression and narcosis.
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Skin contact

: Irritating to skin. Redness Repeated exposure may cause skin dryness or cracking.
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	<b>SAFETY DATA SHEET</b>	Page : 6
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

Eye contact : May cause eye irritation.  
Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.

Chronic toxicity : Repeated exposure may cause skin dryness or cracking.  
Chronic toxicity : Repeated exposure may cause skin dryness or cracking.  
Sensitisation : No sensitization responses were observed.  
carcinogenic effects : No adverse effects are expected.  
Reproductive toxicity : No adverse effects are expected.


## 12. ECOLOGICAL INFORMATION

Ecotoxicity effects : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Mobility : partly soluble  
Persistence and degradability : Inherently biodegradable.  
Bioaccumulation : May cause bioaccumulation.  
Partition coefficient: n-octanol/water : > 3

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Where possible recycling is preferred to disposal or incineration.  
Do not burn, or use a cutting torch on, the empty drum.  
Dispose of in accordance with local regulations.  
Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.  
Contaminated packaging : Dispose of in accordance with local regulations.  
Additional ecological information : Do not flush into surface water or sanitary sewer system.  
Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : The following Waste Codes are only suggestions:  
13 07 01\* - fuel oil and diesel  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances  
Waste codes should be assigned by the user based on the application for which the product was used.

## 14. TRANSPORT INFORMATION

ADR danger labels :   
ADR/RID :  
Proper shipping name : GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT  
UN-No : 1202  
Class : 3  
Packing group : III

	<b>SAFETY DATA SHEET</b>	Page : 7
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

#### ADNR

ADNR class : 3 - Flammable liquids  
ADNR classification code : F1  
ADNR UN number : 1202

#### IMDG

Proper shipping name : GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT  
UN-No : 1202  
Class : 3  
Packing group : III  
EmS : F-E; S-E  
IMDG Limited Quantities : 5 L

#### ICAO/IATA

Proper shipping name : GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT  
UN-No : 1202  
Class : 3  
UN packing group : III

Other information (transport) : Tunnel restriction code D/E

### 15. REGULATORY INFORMATION

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.

Commercial Product Name : DERV

Chemical name of the substance : DERV

EC No : 265-148-2

CAS no : 64742-46-7

Symbol(s) : 

Xn      N

Xn - Harmful  
N - Dangerous for the environment

R-phrase(s) : R20 - Harmful by inhalation.  
R38 - Irritating to skin.  
R65 - Harmful: may cause lung damage if swallowed.  
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : 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.

	<b>SAFETY DATA SHEET</b>	Page : 8
		Revision nr : 1
	<b>DERV</b>	Issuing date : 01/10/2010
		Supersedes :

CLP-Classification : The product is classified as dangerous in accordance with Directive 1272/2008/EEC.

CLP pictograms :



Signal word : Danger

CLP Hazard statements : H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H332 - Harmful if inhaled.  
H411 - Toxic to aquatic life with long lasting effects.

CLP Precautionary statements : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P331 - Do NOT induce vomiting  
P301+P310 - If swallowed, immediately call a doctor.  
P273 - Avoid release to the environment  
P405 - Store locked up

Contains : Distillates (petroleum), hydrotreated middle

WGK : 2

## 16. OTHER INFORMATION

Text of R phrases mentioned in Section 3 : R20 -Harmful by inhalation.  
R38 -Irritating to skin.  
R65 -Harmful: may cause lung damage if swallowed.

H-statements components : H304 -May be fatal if swallowed and enters airways.  
H315 -Causes skin irritation.  
H332 -Harmful if inhaled.  
H411 -Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the datasheet : <http://ecb.jrc.it>  
20100720 CONCAWE C&L update

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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