

# **MATERIAL SAFETY DATA SHEET**

(In accordance with ISO 11014-1)

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	<b>DIESELFIX</b>
<b>Product type</b>	Diesel fuel decontaminant/purifier
<b>Manufacturer</b>	<b>Fluid Fuel Technologies</b>
<b>Address</b>	

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<b>Contact Number</b>	<b>+2782 666 1781</b>
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## 2. Emergency Information

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<b>Emergency telephone number</b>	<b>+2782 666 1781</b>
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## 3. COMPOSITION

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<b>Chemical Name</b>	Liquid carbohydrate mixture.
<b>Synonyms</b>	Not applicable.
<b>CAS Number</b>	Not applicable.
<b>NIOSH Number</b>	Not applicable.
<b>UN Number</b>	Not applicable.

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## 4. HAZARDS IDENTIFICATION

<b>Human Health Hazards</b>	Harmful by inhalation, in contact with skin and if swallowed. Irritating to respiratory system.
<b>Safety Hazards</b>	Combustible.
<b>Symptoms and Effects</b>	Irritation of the skin, eyes and respiratory tract. Inhalation may cause headache and nausea. Ingestion may cause irritation of digestive tract.

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## 5. FIRST AID MEASURES

<b>First Aid – Inhalation</b>	Remove to fresh air. If rapid recovery does not occur, obtain medical attention.
<b>First Aid – Skin</b>	Remove contaminated clothing. Wash skin with water, using soap if available. If irritation persists, obtain medical attention.
<b>First Aid – Eyes</b>	Flush eye with water. If irritation persists, obtain medical attention.
<b>First Aid – Ingestion</b>	DO NOT DELAY. Do not induce vomiting. Give water to drink, provided patient is conscious. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
<b>Advice to Physicians</b>	Ingestion may cause coma, metabolic acidosis, hypokalaemia and haemoglobinuria.

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## 6. FIRE FIGHTING MEASURES

<b>Specific hazards</b>	Not classified as flammable but will burn. Hazardous combustion products may include carbon monoxide.
<b>Extinguishing media</b>	Alcohol-resistant foam, dry chemical powder, carbon dioxide. Sand or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Water in a jet.
<b>Protective equipment</b>	Full protective clothing and self-contained breathing apparatus.
<b>Other information</b>	Keep adjacent containers cool by spraying with water.

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## 7. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear suitable protective clothing to prevent contamination of skin, eyes and personal clothing. Ventilate contaminated area thoroughly. Do not breathe the vapour. Stop the leak if it can be done without personal risk.
<b>Environmental precautions</b>	Prevent contamination of soil and water. Prevent from spreading or entry into drains, ditches or rivers by using sand, earth or other appropriate barriers.
<b>Small spills</b>	Take immediate action to stop or contain the spill. Eliminate all sources of ignition and wear protective clothing (see Section 8) Absorb spilled material with sand and shovel up and place in a labelled, sealable container for subsequent safe disposal.  Flush contaminated area with plenty of water. Place leaking containers in a labelled drum or overdrum.
<b>Large spills</b>	Stop the leak if it can be done without risk. Contact the local Fire Department. Eliminate all sources of ignition and static; restrict the area until completion of clean-up procedure. Wear adequate protective clothing and equipment. Use self contained breathing apparatus in confined, poorly ventilated areas. Absorb spilled material with sand. Transfer to labelled sealable containers for product recovery or safe disposal.  Treat residues as for small spillage.

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## 8. HANDLING AND STORAGE

<b>Handling</b>	Do not swallow. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapour and spray. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	Keep containers tightly closed. Store in cool, well-ventilated conditions.

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## 9. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure standards** TWA OEL-RL 120 mg/m<sup>3</sup>  
Short term OEL-RL 240 mg/m<sup>3</sup>

**Engineering control measures** Provide adequate exhaust ventilation to keep airborne vapour concentration below occupational exposure limit.

**Personal protection** Wear gauntlet-type PVC gloves. PVC one-piece suit with integral hood. Rubber, knee-length safety boots. Wear full face-piece respirator with organic-vapour canister NPF 400.

In confined space, wear open-circuit type self-contained breathing apparatus NPF 200.

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## 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Clear, pale yellow
<b>Odour:</b>	Rancid (odour threshold value 0,48 ppm)
<b>Initial Boiling Point:</b>	168°C
<b>Final Boiling Point:</b>	173°C
<b>Melting/Freezing Point:</b>	-70°C
<b>Vapour Pressure:</b>	0,08 kPa @ 20°C
<b>Density:</b>	900 kg/m <sup>3</sup> @ 20°C
<b>Vapour Density (air = 1):</b>	4,1
<b>Flash Point</b>	67°C
<b>Explosion Limit – Upper</b>	10,6% (v/v)
<b>Explosion Limit – Lower</b>	1,1% (v/v)
<b>Auto-Ignition Temperature</b>	240°C
<b>Solubility in Water</b>	Complete
<b>Relative Evaporation Rate</b>	0,08

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## 11. STABILITY AND REACTIVITY

**Conditions to avoid** High temperatures and direct sunlight.

**Incompatible substances** Strong alkalis and oxidising agents.

**Hazardous polymerisation** Does not occur.

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## 12. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity – Oral</b>	LD50 530 mg/kg
<b>Eye Irritation</b>	Slight irritant
<b>Skin Irritation</b>	Slight irritant
<b>Respiratory Irritation</b>	Irritant
<b>Skin Sensitisation</b>	Dieselfix is not a skin sensitiser
<b>Sub-Chronic Toxicity</b>	Repeated exposure causes haemolysis of blood cells
<b>Human Effects</b>	Can cause haemolysis. Irritant to respiratory tract

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### 13. ECOLOGICAL INFORMATION

<b>Basis for Assessment</b>	Information given is based on product data
<b>Mobility</b>	Dissolves in water. Product remaining on soil surface will partly evaporate but a significant proportion will remain after 1 day. Large volumes may penetrate soil and could contaminate ground water.
<b>Persistence/degradability</b>	Readily biodegradable. Oxidises rapidly by photochemical reactions in air and water.
<b>Bioaccumulation</b>	Does not bio accumulate

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### 14. DISPOSAL CONSIDERATIONS

<b>Disposal/waste information</b>	Avoid spillage or runoff into soil and water drains. Use only approved waste disposal facilities. Dispose of according to local and national regulations.
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### 15. TRANSPORT INFORMATION

Non-dangerous for transport

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### 16. REGULATORY INFORMATION

<b>EC classification</b>	Irritant
<b>Risk phrases</b>	R22 Harmful if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin.
<b>Safety phrases</b>	S1/2 Keep locked up and out of reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, immediately wash with plenty of water. S36/37/39 Wear suitable protective clothing, gloves and eye/face shield.

#### **National legislation (South Africa)**

National Road Traffic Act, 1996 (Act 93 Of 1996)  
Fire Brigade Services Act, 1987 (Act 99 of 1987)  
Occupational Health and Safety Act, 1993 (Act 85 Of 1993)

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### 17. OTHER INFORMATION

None applicable

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