

MATERIAL SAFETY DATA SHEET
DIESEL FUEL (LOW SULPHUR)

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1. IDENTIFICATION OF SUBSTANCE OR PREPARATION

PRODUCT DERV/DIESEL (LOW SULPHUR)/CITY DIESEL

APPLICATION Fuel for diesel engined road vehicles.

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2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION Mixture of hydrocarbons, mainly paraffinic with some aromatics and naphthenes. Carbon numbers in C10 to C28 range.

HAZARDOUS COMPONENTS

Name	%	CAS	EINECS	SYMBOL	RISK PHRASES
DIESEL		68334-30-5	269-822-7	Xn,N	R40/R65/R66/R51/R53

3. HAZARDS IDENTIFICATION

Harmful if swallowed. May cause irritation in contact with eyes and skin. This product is a suspected human carcinogen. Possible risk of irreversible effects. Repeated exposure may cause skin dryness or cracking. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

EYES Wash eye thoroughly with copious amounts of clean water. If irritation persists, seek medical advice.

SKIN Remove contaminated clothing as soon as possible. Wash exposed skin thoroughly with soap and water. If irritation persists, seek medical attention.

INGESTION If this material is swallowed, DO NOT INDUCE VOMITING. If unconscious, place in recovery position and protect airway. Seek immediate medical attention.

INHALATION If inhalation of mists, fumes or vapours causes irritation or coughing, remove to fresh air. Administer artificial respiration if breathing stops. Seek immediate medical attention

PRESSURE INJECTION Always obtain immediate medical attention as injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis.

OTHER Material may cause chemical pneumonitis if aspirated into the lungs.

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5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Use carbon dioxide, dry powder, foam or waterfog. DO NOT use water jets.
FIRE AND EXPLOSION HAZARDS	Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. See Section 10.
PROTECTIVE MEASURES	Do not enter enclosed spaces without proper protective equipment including respirator. Use water spray to cool containers exposed to fire.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

PERSONAL PRECAUTIONS	Any spillage should be regarded as a potential fire risk.
ENVIRONMENTAL PRECAUTIONS	Wear protective clothing and goggles. When dealing with product in a confined space use appropriate RPE.
RECOVERY	Eliminate all sources of ignition. Contain the spill to the smallest area possible using dikes, dams, or booms as appropriate. Avoid entry into sewers and water courses.
	Recover as much of the product as possible by pumping. Soak up residual fluids using absorbent materials. Remove contaminated items including soil and place in suitable containers for disposal.

7. STORAGE AND HANDLING (IN NORMAL USE)

STORAGE	Store in suitably designed tanks and storage areas away from heat, ignition sources and open flames, in compliance with national and local regulations and codes of practice.
VENTILATION	Ensure adequate ventilation.
HANDLING	Avoid creating mists. DO NOT SMOKE EAT OR DRINK WHILST HANDLING. Launder contaminated clothing before re-use. Use impervious gloves. Avoid contact with eyes. Observe good personal hygiene practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS	None.
Name	
ENGINEERING MEASURES	Ensure adequate ventilation. Avoid flames and excessive temperatures.
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY	If operations are such that significant exposure may be anticipated, then suitable respiratory equipment should be worn. No special requirements for normal operations carried out in well ventilated areas.
HAND	Impervious gloves of nitrile rubber or PVC where skin contact is anticipated.
EYE	Use chemical goggles if possibility of accidental splashing or exposure to mist or spray.
OTHER	Coveralls. Do not eat or drink whilst handling this product.

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9. PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE	Clear liquid. Straw to golden colour.
ODOUR	Characteristic odour. Hydrocarbons.
VISCOSITY MM ² /S	2 – 4.5 @ 40°C
BOILING POINT (or RANGE)	160 - 385°C
FLASH POINT	>55°C
EXPLOSIVE LIMITS	
UPPER LIMIT	7.5%
LOWER LIMIT	0.6%
DENSITY @ 15°C	820 - 835 kg/m ³
SOLUBILITY	Negligible, < 0.1%
VAPOUR PRESSURE, kPa:	< 0.3 @ 20°C

10. STABILITY AND REACTIVITY

STABILITY	Stable at ambient temperatures.
CONDITIONS TO AVOID	Avoid exposure to heat and flame.
MATERIALS TO AVOID	Avoid strong oxidising materials.
HAZARDOUS DECOMPOSITION PRODUCTS	Incomplete combustion will generate smoke and toxic gases including carbon monoxide.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

EYES	Exposure to mist or direct splashing may cause irritation.
SKIN	Will remove natural fats from the skin. Prolonged or repeated exposure may cause dermatitis or more serious irreversible skin disorders including cancer.
INGESTION	Unlikely to occur in normal use. This product is irritant to the mucous membranes of mouth, throat and gastro-intestinal tract. Spontaneous vomiting is common with consequent risk of aspiration resulting in a potentially fatal chemical pneumonitis.
INHALATION	Where ventilation is poor or temperatures high vapour production may be a hazard. Exposure to high levels of vapour may cause dizziness, headache and nausea/irritation. Inhalation of oil mists may cause irritation to the upper respiratory tract.
CHRONIC EFFECTS	This product is classified for supply as a category 3 Carcinogen.

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12. ECOLOGICAL INFORMATION

MOBILITY	Spillages may penetrate the soil causing ground water contamination. This material may accumulate in sediments.
PERSISTENCE & DEGRADABILITY	This product is inherently biodegradable.
BIO-ACCUMULATION	May bioaccumulate.
AQUATIC TOXICITY	This product is considered toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could be impaired.
OTHER	

13. DISPOSAL CONSIDERATIONS

Dispose of via a licensed waste carrier in accordance with local/national regulations. Do not discharge into the public drainage system.

14. TRANSPORT INFORMATION (REGULATIONS)

PACKAGING (Size & Description)

TRANSPORT CLASSIFICATION	FLAMMABLE LIQUID
U N NUMBER	1202
SUBSTANCE NAME	Diesel Fuel
ICAO/IATA/IMDG CLASS	3
SUBSIDIARY RISK	--
PACKING GROUP	III
ADR CLASS	3
TRANSPORT HAZARD SYMBOL	None.
HAZARD IDENT. NUMBER	30
EMERGENCY ACTION CODE	3Z

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15. REGULATORY INFORMATION (Supply & Labelling)

SUPPLY CLASSIFICATION	Harmful. Carcinogenic Category 3. Dangerous for the environment.
LABELLING SYMBOLS	Harmful – St Andrews Cross Dangerous for the Environment – Dead Tree & Fish
RISK PHRASES	R40 Limited evidence of carcinogenic effect. R51/R53 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.
SAFETY PHRASES	S2 Keep out of reach of children. S20/S21 When using do not eat, drink or smoke. S24/25 Avoid contact with skin and eyes. S36/37 Wear suitable protective clothing and gloves. S43 In case of fire, use foam/dry powder/CO ² . Never use water jets. 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

16. OTHER INFORMATION

This product is intended for use as a fuel for diesel engine vehicles on public highways. DO NOT use as a solvent or cleaning agent. DO NOT siphon by mouth.

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The information given in this data sheet is presented as guidance only for the purpose of determining health, safety and environmental measures. No warranty or representation express or implied is made as to the accuracy of completeness of the data and information contained in this data sheet. It is the users responsibility to evaluate this product and its intended use and to ensure compliance with applicable laws and regulations.