

MATERIAL SAFETY DATA SHEET

Date Revised: February 2015

COMPANY DETAILS Responsive Engineering Australia Pty Ltd
64 Kembla Street, Fyshwick ACT 2609
Ph (02) 6280 4334; Fax (02) 6280 0179

IDENTIFICATION

Product Name: Responsive Diesel Fuel Lubricant & Conditioner
Manufacturer's Code: Responsive Fuel Conditioner
UN Number: NA
Dangerous Goods Class: NA
Hazchem Code: NA
Poisons Schedule Number: NA

Use: The product is added to diesel to provide clean up and keep clean benefits to diesel fuels, particularly common rail type fuel systems.

Physical Description/Properties

Appearance	Pale yellow oily liquid
Odour	Aromatic
Specific Gravity @15C	0.9
Flash Point (Closed Cup)	70C
Vapour pressure @ 20C	<0.5 mmHg
Phosphorus, wt%	<0.3%
Ash, wt%	<0.01
Solubility in water wt%	negligible

Ingredients:

Chemical entity	Product Code No.	Proportion
Petroleum Oil	None	High (>90%)
Hydrocarbon Polymer	10214	Low (<10%)
C11 – C14 Low (<10%)		
n-Alkanes Low (<10%)		
Isoalkanes Low (<10%)		
Cyclics Low (<10%)		
Aromatics Low (<0.2%)		

HEALTH HAZARD INFORMATION

Health Effects of Overexposure

Ingestion:	May cause irritation of the mouth, throat and digestive tract. May cause nausea, impaired balance, blurred vision. Massive doses can be fatal.
Toxicology:	No significant toxicity to reproductive organs established. No reproductive and development effects noted.
Eye:	Avoid splashing. May act as irritant.
Skin:	May cause sensitization by skin contact. Repeated skin contact may cause dryness/cracking.
Inhalation:	May cause headache, nausea, impaired balance, blurred vision. Massive over-exposure/misuse can be fatal.

First Aid

Ingestion:	Do not induce vomiting due to the risk of aspiration. Give water to drink. Keep at rest. Get immediate medical attention.
Eye:	Irrigate the eye with copious quantities of water for at least 10 inutes or until irritation subsides.
Skin:	Wash skin thoroughly with soapy water and remove contaminated clothing.
Inhaled:	Move to fresh air, keep patient warm and at rest. If loss of consciousness, give oxygen. Seek immediate medical advice.

PRECAUTIONS FOR USE

Exposure Limits:	Threshold limit suggested at 5mg oil mist/cu metre.
Ventilation:	Use in a well ventilated place.
Personal Protection:	Petroleum solvent resistant gloves and protective clothing should be used. Face shield may be required where splashing is a risk.
Flammability:	NA. However, the product is a combustible material.

SAFE HANDLING INFORMATION

Storage & Transport:

Not defined as Dangerous Goods by the Australian Code for the Transport of Dangerous Goods by Road or Rail. Store away from sources of heat or ignition. Keep containers sealed at all times.

Spills & Disposal:

In the event of a minor spill, cover with sand or oil absorbent material. Where a major spill occurs, keep public away, extinguish all sources of ignition, and advise authorities. Dam and recover if possible. Prevent entry into drainage systems. Warn occupants down wind. If spill is in a confined area, an approved half-face cartridge respirator suitable for organic vapours to be worn.

Waste product can be disposed of through a government approved waste disposal facility.

Fire/Explosion Hazard:

Flash Point (Closed Cup)	70C
Flammable Limits	LEL NA
	UEL NA

Hazardous products of combustion include smoke, fumes, carbon monoxide.

Fire Extinguishing Media: Foam, dry chemical, carbon dioxide, BCF

Special Firefighting Procedures: Use water spray to cool fire exposed surfaces, and any adjacent storage vessels. Shut off source of product if safe to do so. Remove sources of re-ignition. Extinguish fire.

Other information:

Container may contain combustible residues. Do not weld, oxy cut, cut with a grinder or expose to a flame.

Reactivity Data.

Stability:	Stable.
Conditions to avoid.	Ignition sources, extreme heat
Incompatibility:	Strong oxidizers

REGULATORY INFORMATION

Classification:	Combustible
Nature of special risk:	NA
Safety Advice:	In case of fire, use sand, earth, chemical powder or foam.

TRANSPORT INFORMATION

As precaution, keep away from strong oxidizing agents, and sources of heat or ignition. Keep away from food or drink. Keep container tightly closed when not in use.

CONTACT POINT:

Responsive Engineering
Ph (02) 6280 4334