

**1****PRODUCT IDENTIFICATION****Additone EC-1500**

CHEMECOL UK LIMITED.

The Maltings

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Cas Number

Not applicable for mixtures

Synonyms

None

Generic Chemical Name

Mixture

Product Type

Diesel Fuel Additive

Emergency Phone Number

+44 (0)1920 465 077

**2****COMPOSITION / INFORMATION ON INGREDIENTS****Key Hazardous Ingredients**

Hydrocarbon Solvent

contains hexane, alkyl amine

Risk Phrases

Xn;R38-48/20-62 F;R11 N;R51/53 Xn;R65-;R67

**3****HAZARDS IDENTIFICATION****Principal Hazards**

Highly flammable. Causes burns. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

**4****FIRST AID MEASURES****Ingestion**

Ingestion causes burns of the upper digestive and respiratory tracts. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

**Eyes**

Causes burns. Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea. Obtain medical attention.

**Skin**

Causes burns. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

**Inhalation**

Inhalation of vapours in high concentration may cause shortness of breath (lung edema). Move to fresh air. Consult a physician after significant exposure.

**Extinguishing Media**

Use only foam, dry powder, and carbon dioxide or halon extinguishers. Cool containers by water fog/spray. DO NOT use high volume water jet if chemicals have leaked.

**Fire Fighting Procedures**

Recommended wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water. Use water to cool containers exposed to fire.

**Unusual Fire & Explosion Hazards**

Vapour may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions. Toxic fumes may evolve on burning. Contains highly flammable materials.

**Personal precautions**

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment.

**Environmental precautions**

Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. After cleaning, flush away traces with water.

**Handling Procedures**

Keep material away from sources of ignition i.e. heat, sparks, pilot lights, static electricity and open flames. Open container in a well-ventilated area. In general, ChemEcol recommends, as a minimum, the use of neoprene or nitrile rubber gloves and safety goggles and other protective clothes. If opening in a closed area or one having restricted ventilation than wear appropriate NIOSH/MSHA approved respirator. Avoid breathing vapours. Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue, which may exhibit hazards of product. Ensure all equipment is electrically grounded before beginning transfer operations.

**Ventilation Procedures**

Use local exhaust ventilation to control mists or vapour. Ensure adequate ventilation is available to keep air concentrations below exposure limits.

**Storage Procedures**

Keep material away from heat, sparks pilot lights, static electricity and open flame. Do not expose container to direct sunlight as pressure build-up may occur. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers

**Maximum Storage Temperature**

40 Deg C, 104 Deg F

<b>Long Term (8 Hours T.W.A)</b>	10 ppm
<b>Ventilation Procedure</b>	Use local exhaust ventilation to control mists or vapours. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
<b>Hand Protection</b>	Nitrile. Polyvinyl alcohol. Note: polyvinyl alcohol gloves are water soluble and should not be used when there is potential for water contact.
<b>Eye Protection</b>	Chemical goggles or face shield.
<b>Respiratory Protection</b>	Use approved full-face respirator with a combination organic vapour and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined areas which are poorly ventilated or have large spills.
<b>Clothing</b>	Use chemically protective boots. Do not wear rings, watches etc. under which chemical can adhere. Wear long sleeves and overalls. Wear impervious protective clothing and gloves. Protective clothing should be regularly inspected and maintained; overall should be dry-cleaned, laundered and preferably starched after use.

<b>Physical State</b>		liquid
<b>Colour</b>		light amber
<b>Odour</b>		sweet paraffinic
<b>Density @ 15 °C kg/l</b>	ASTM D4052	0.73
<b>Viscosity @ 40 °C cSt</b>	ASTM D445	0.68
<b>Reid Vapour Pressure @ 37.8 °C, kPa</b>	ASTM D5191	23.5
<b>IBP °C</b>	ASTM D86	75
<b>FBP °C</b>	ASTM D86	255.5
<b>Sulphur, %(m/m)</b>	IP373	nil
<b>Ash Content, % (m/m)</b>	IP4	nil
<b>Pour Point, °C</b>	IP15	-21
<b>Molecular Weight</b>		Not determined
<b>Flash Point °C</b>	(ASTM D56)	-15
<b>Flash Point in Diesel @ 1:1250(v/v) °C</b>	(IP34)	65
<b>Upper Flammable Limit</b>		Not Determined.
<b>Lower Flammable Limit</b>		Not Determined.
<b>Auto ignition Point</b>		Not Determined.
<b>Explosion Data</b>		Not Determined.

<b>Stability</b>	Material is stable at modest temperatures and pressures.
<b>Incompatibility</b>	Mineral acids. Strong oxidizing agents. Halogens and halogenated compounds.
<b>Polymerisation</b>	Will not occur.
<b>Thermal Decomposition</b>	Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

<b>Eye Irritation</b>	Moderate to strong eye irritation. Based on data from components or similar material.
<b>Skin Irritation</b>	May cause irritation to skin. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet from material may cause dermatitis. Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
<b>Respiratory Irritation</b>	Exposure to a high concentration of vapour or mist is irritating to the respiratory tract.
<b>Dermal Toxicity</b>	LD <sub>50</sub> in rabbits > 2000 mg/Kg. Based on data from components or similar material.
<b>Inhalation Toxicity</b>	High concentration may cause headaches, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, other central nervous system effects leading to visual impairment, respiratory failure, unconsciousness and death. LC <sub>50</sub> /4h/rat = 18g/m <sup>3</sup>
<b>Oral Toxicity</b>	Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhoea and abdominal pain. LD <sub>50</sub> in mouse > 500 mg/Kg. Based on data from components or similar material.
<b>Dermal Sensitisation</b>	May cause allergic skin reaction in susceptible individuals.
<b>Inhalation Sensitisation</b>	No data available to indicate product or components may be respiratory sensitizers.
<b>Chronic Toxicity</b>	No data available to indicate products or components present at greater than 1% are chronic health hazards.
<b>Other</b>	No other health hazards known.

**12****ECOLOGICAL INFORMATION**

<b>Mobility</b>	Spillages may penetrate the soil causing ground water contamination.
<b>Persistence and Degradability</b>	This product is inherently biodegradable.
<b>Bioaccumulative Potential</b>	There is no evidence to suggest bioaccumulation will occur.
<b>Aquatic Toxicity</b>	Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Spills may form a film on water causing physical damage to organisms. Oxygen transfer could also be impaired.
<b>Freshwater Fish Toxicity</b>	LC50/24h is between 1 - 10 mg/L based on component data
<b>Freshwater Invertebrate Toxicity</b>	LC50/24h is between 1 - 10 mg/L based on component data
<b>Algae Toxicity</b>	LC50/24h is between 1 - 10 mg/L based on component data

**13****DISPOSAL CONSIDERATION**

<b>Disposal</b>	Where possible, arrange for product to be recycled. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met. Do not allow product to enter drains or into sewage system.
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**14****TRANSPORT INFORMATION**

<b>Flammable Liquid, Corrosive, N.O.S. (hexane, alkyl amine)</b>	UN No.	2924
<b>Land Transport - ADR/RID</b>		
<b>Packing Class; ADR/RID</b>		3 (8)
<b>Packing Group</b>		II
<b>Hazard ID</b>		F-C
<b>Sea Transport - IMO</b>		
<b>Packing Class; IMDG</b>		3 (8)
<b>Packing Group</b>		II
<b>EmS</b>		F-E S-C
<b>Marine Pollutant</b>		NO
<b>Air Transport - IATA-DGR</b>		
<b>Packing Class</b>		3 (8)
<b>Packing Group</b>		II
<b>Packaging</b>		307
<b>HS Number</b>		3811.9000

**Labeling**

The product is classified and labelled in accordance with Directive 1999/45/EC. The product is classified in accordance with Annex VI to Directive 67/548/EEC.

**Symbol**

F; C; N

**Precautionary Labels**

- |        |   |
|--------|---|
| R11    | Highly flammable.   |
| R34    | Causes burns  |
| R36    | Irritating to eyes  |
| R38    | Irritating to skin  |
| R40    | Limited evidence of a carcinogenic effect   |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation.                   |
| R50/53 | Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.     |
| R62    | Possible risk of impaired fertility.  |
| R65    | Harmful: may cause lung damage if swallowed.  |
| R67    | Vapours may cause drowsiness and dizziness  |
| S16    | Keep away from sources of ignition - No smoking.  |
| S26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.           |
| S28    | After contact with skin, wash immediately with plenty of water  |
| S29    | Do not empty into drains.   |
| S36/37 | Wear suitable protective clothing gloves and eye/face   |
| /39    | protection  |
| S43    | In case of fire use foam, dry powder, CO <sub>2</sub> halon   |
| S45    | In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). |
| S62    | If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label  |

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