



**CHEMIPHASE LTD  
SAFETY DATA SHEET**

# **COLDFLOW 402**

## **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING**

**PRODUCT NAME:** COLDFLOW 402

**PRODUCT Description:** Biodiesel Additive - NEW FORMULATION NOVEMBER 2006

**APPLICATION** BIODIESEL

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## **2. COMPOSITION INFORMATION ON INGREDIENTS**

NAME	EU No	CAS No	PERCENTAGE BY WEIGHT	CLASSIFICATION
TOLUENE	203-625-9	Confidential	3%	R11 R38 R48/20 R63 R65 R67

The Full Text for all R- Phrases are displayed in Section 16

## **3. HAZARDS IDENTIFICATION**

Symbol(s) Not applicable

Product Classification Not applicable

## **4. FIRST AID MEASURES**

### GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

### INHALATION

Remove exposed person to fresh air if adverse effects are observed. If breathing is laboured administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.

### INGESTION

DO NOT INDUCE VOMITTING. If conscious, give 2 glasses of water. Get immediate medical attention.

### SKIN CONTACT

Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical attention.

## **5. FIRE FIGHTING MEASURES**

### EXTINGUISHING MEDIA

Use: Dry chemical, Carbon dioxide (CO<sub>2</sub>) or foam. Water can be used to cool and protect exposed material.

### FLASH POINT

>61 °C, 141.8 °F PMCC (Minimum)

### FIRE FIGHTING PROCEDURES

Recommend wearing self-contained breathing apparatus. Water may cause splattering.

### UNUSUAL FIRE & EXPOSURE HAZARDS

Vapours may be heavier than air and may travel along the ground to a distant ignition sources and flash back. Container may rupture on heating.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL PROCEDURES

Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labelling (DOT/CERCLA) and other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

## 7. HANDLING AND STORAGE

PUMPING TEMPERATURE Not determined.

MAXIMUM HANDLING TEMPERATURE

55 °C, 131 °F

HANDLING PROCEDURES

Keep away from potential sources of ignition. Open container in a well ventilated area. Avoid breathing vapours. Keep containers closed when not in use. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flames, spark or other sources of ignition.

MAXIMUM STORAGE TEMPERATURE

45 °C, 113 °F

STORAGE PROCEDURES

Do not store near potential sources of ignition. Store in well ventilated place.

LOADING TEMPERATURE

110 °C, 230 °F

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS - EU

Name	CAS No.	LONG TERM (8 Hours T.W.A.)	SHORT TERM (15 mins.)
TOLUENE	108-88-3	50 ppm (s)	N/E

UK

Not applicable.

- (s) Skin exposure
- (p) Proposed limit
- (c) Ceiling exposure
- (l) Recommended exposure limit
- (u) Supplier recommended exposure limit
- (N/E) – None established

OTHER EXPOSURE LIMITS: Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic metre

ENGINEERING CONTROLS: Use local exhaust ventilation to control mists or vapours. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

HAND PROTECTION: Nitrile

EYE PROTECTION: Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

RESPIRATORY PROTECTION: Use 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 space, for other poorly ventilated areas and for large spill clean-up sites.

CLOTHING

RECOMMENDATION: Long sleeve shirt is recommended. Wear either a chemical protective suit or apron when potential for contact with material exists. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	>61 °C, 141.8 °F PMCC (Minimum)
Upper Flammable Limit	Not determined
Lower Flammable Limit	Not determined
Autoignition Point	Not determined
Explosion Data	Material does not have explosive properties
Vapour Pressure	0.0001 mm Hg (20 °C) 0.0046 mm Hg (77 °C)
pH	Not Determined
Specific Gravity	0.92 (15.6 °C)
Bulk Density	Not Determined
Water Solubility	Insoluble
Percent Solid	Not Determined
Percent Volatile	Unknown
Percent VOC	Not Determined
Vapour Density	Not Determined
Evaporation Rate	Not Determined

Odour	Mild
Appearance	Amber coloured liquid
Viscosity	6000 Centistokes (40 °C) 660 Centistokes (100 °C)
Odour Threshold	Unknown
Boiling Point	Not Determined
Pour Point Temperature	Not Determined
Melting/freezing Point	Not Determined

*The above data are typical values and do not constitute a specification*

## 10. STABILITY AND REACTIVITY

STABILITY	Material is normally stable at moderately elevated temperatures and pressures.
DECOMPOSITION TEMPERATURE	Not Determined
INCOMPATIBILITY	Strong oxidising agents
THERMAL DECOMPOSITION	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

## 11. TOXICOLOGICAL INFORMATION

### -ACUTE EXPOSURE-

EYE IRRITATION	Weak to moderate eye irritant. Does not meet EU R36 criteria. Based on data from components and similar materials.
SKIN IRRITATION	May cause skin irritation, based on data from components or similar materials. Not expected to meet EU R38 criteria. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
RESPIRATORY IRRITATION	Nose, throat and lung irritant. Based on data from components or similar materials.
DERMAL TOXICITY	The LD50 in rabbits is >5000 mg/kg. Based on data from components or similar materials. Components of this material are absorbed through the skin.
INHALATION TOXICITY	High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions.
ORAL TOXICITY	The LD50 in rats is > 5000 mg/kg. Based on data from components or similar materials.
DERMAL SENSITISATION	No data available to indicate product or components may be a skin sensitiser.
INHALATION SENSITISATION	No data available to indicate product or components may be respiratory sensitiser.

### -CHRONIC EXPOSURE-

CHRONIC TOXICITY	Repeated overexposure to toluene may cause loss of appetite, liver enlargement, and kidney and lung damage. Repeated inhalation of hydrocarbon solvents such as toluene can cause chronic neurological disturbances.
CARCINOGENICITY	This product is formulated with mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
MUTAGENICITY	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
REPRODUCTIVE TOXICITY	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
TERATOGENICITY	Prolonged and repeated exposure of pregnant animals to toluene by inhalation has been reported to cause adverse fetal development effects.
OTHER	No other health hazards known.

## 12. ECOLOGICAL INFORMATION

### -ENVIRONMENTAL TOXICITY-

FRESHWATER FISH TOXICITY	The acute LC50 is > 1000 mg/L based on similar products
FRESHWATER INVERTEBRATES TOXICITY	Not Determined.
ALGAE TOXICITY	Not Determined.
SALTWATER FISH TOXICITY	Not Determined.
SALTWATER INVERTEBRATES TOXICITY	Not Determined.
BACTERIA TOXICITY	The acute EC50 is >1000 mg/L based on similar products
MISCELLANEOUS TOXICITY	Not Determined.

## 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	This material, if discarded, should not be considered a European hazardous waste.
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## 14. TRANSPORT INFORMATION

ICAO/IATA (International)	Not regulated
IMDG	Not regulated
IMDG EMS Fire	Not applicable
IMDG EMS Spill	Not applicable
IMDG MFAG	Not applicable
IMO Marine Vessel	DO NOT TRANSPORT – ADDITIONAL INFORMATION REQUIRED
USCG Compatability	Not determined
ADR/RID	Not regulated
ADR/RID Hazard ID No.	Not applicable

*Review classification requirements before shipping materials at elevated temperatures*

## 15. REGULATORY INFORMATION

SYMBOL(s)	Not applicable
INDICATION OF DANGER	Not applicable
PRECAUTIONARY LABELS	Not applicable
OTHER LABEL INFORMATION	None

RELEVANT R PHRASES	R11 – Highly flammable R38 - Irritating to skin R48/20 – Harmful: danger of serious damage to health by prolonged exposure through inhalation R63 – Possible risk of harm to the unborn child R65 – Harmful: may cause lung damage if swallowed R67 – Vapours may cause drowsiness or dizziness
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UK REGULATORY REFERENCES  
Approved Supply List

STATUTORY INSTRUMENTS  
Chemicals (Hazard Information and Packaging) Regulations  
APPROVED CODE OF PRACTICE  
Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES  
Occupational Exposure Limits EH40. Approved guide to the classification and labelling of substances and preparations dangerous for supply.

## 16. OTHER INFORMATION

REVISION COMMENTS  
General revision

ISSUED BY  
CES

REVISION DATE                      MARCH 2008

REVISED SDS GENERATED        NOVEMBER 2006

### DISCLAIMER

The information provided in this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

