



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Product Name	CF 10GGC
Application	Fracturing Additive
Importer	Condor Energy Services Ltd Level 4, 15 Ogilvie Road Mount Pleasant WA 6153 AUSTRALIA +61 8 9315 5986
Emergency Contacts	1800 205 506 +65 6542 9595

2. HAZARDS IDENTIFICATION
Not classified as hazardous according to Safe Work Australia.
This product is not classified as a dangerous good according to national or international regulations.
S-phrase(s) This material and/or its container must be disposed of as hazardous waste.
Other hazards which do not result in classification None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical Name	CAS No.	Concentration (%)
Hydrotreated Light Distillate	64742-47-8	30 - 60
Hexamethylene Glycol	629-11-8	0.1 - 1
The balance of the substances in this product are not classified as hazardous or are present below hazard cut-off limits		

4. FIRST AID MEASURES

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In case of eye contact	Rinse with plenty of water. Get medical attention if symptoms occur.
In case of skin contact	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
If swallowed	Rinse mouth. Get medical attention if symptoms occur. Contact the Poison's Information Centre (Australia 13 1126; New Zealand 0800 764 766).
If inhaled	Get medical attention if symptoms occur.
Protection of first-aiders	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency services Use personal protective equipment as required.
Notes to physician	Treat symptomatically
See toxicological information (Section 11)	

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Specific hazards during firefighting	Not flammable
Hazardous combustion products	Carbon oxides
Special protective equipment for firefighters	Use personal protective equipment
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	<p>Stop leak if safe to do so</p> <p>Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).</p> <p>Flush away traces with water.</p> <p>For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway</p>

7. HANDLING AND STORAGE	
Advice on safe handling	For personal protection see section 8. Wash hands after handling.
Conditions for safe storage	Keep out of reach of children Keep container tightly closed Store in suitable labeled containers.
Suitable material	Keep in properly labelled containers
Unsuitable material	Not determined

8. EXPOSURE CONTROL / PERSONAL PROTECTION				
Components with workplace control parameters				
Components	CAS No.	For of exposure	Permissible concentration	Basis
Hydrotreated Light Distillate	64742-47-8	TWA	500 ppm 2,000 mg/m ³	OSHA Z1
		TWA	200mg/m ³	ACGIH
Hexamethylene Glycol	629-11-8	TWA	10 mg/m ³	WEEL

Personal Protective Equipment	
Eye protection	Safety glasses
Hand protection	Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	Wear suitable protective clothing
Respiratory protection	No personal respiratory protective equipment normally required.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	slurry
Colour	Opaque
Odour	Hydrocarbon
Flash point	76.7 °C Method: Pensky-Martens closed cup Estimated
pH	no data available
Odour Threshold	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	246.1 °C
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper explosion limit	no data available
Lower explosion limit	no data available
Vapour pressure	0.23 hPa (20 °C)
Relative vapour density	no data available
Relative density	1.020 - 1.090
Density	no data available
Water solubility	Emulsifiable



Solubility in other solvents	no data available
Partition coefficient: n-octanol / water	no data available
Auto-ignition temperature	no data available
Thermal decomposition	Carbon oxides
Viscosity, dynamic	350 mPa.s (22 °C)
Viscosity, kinematic	350 mm ² /s
VOC	no data available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	None known
Incompatible materials	None known
Hazardous decomposition products	Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Inhalation, Eye contact, Skin contact
Potential Health Effects	
Eyes	Health injuries are not known or expected under normal use.
Skin	Health injuries are not known or expected under normal use.
Ingestion	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use.
Chronic Exposure	Health injuries are not known or expected under normal use
Experience with human exposure	
Eye contact	No symptoms known or expected
Skin contact	No symptoms known or expected
Ingestion	No symptoms known or expected

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Inhalation	No symptoms known or expected
Toxicity (Product)	
Acute oral toxicity	no data available
Acute inhalation toxicity	no data available
Acute dermal toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Carcinogenicity	no data available
Reproductive effects	no data available
Germ cell mutagenicity	no data available
Teratogenicity	no data available
STOT - single exposure	no data available
STOT - repeated exposure	no data available
Aspiration toxicity	no data available
Toxicity (Components)	
Oral toxicity	Hydrotreated Light Distillate LD50 rat: > 5,000 mg/kg
Human Hazard Characterization	Based on our hazard characterization, the potential human hazard is: Low

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Environmental Effects	Harmful to aquatic life with long lasting effects.
Ecotoxicity (Product)	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Toxicity to algae	no data available
Ecotoxicity (Components)	



Toxicity to fish	Hydrotreated Light Distillate LC50 : > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	Hydrotreated Light Distillate EC50 : > 1,000 mg/l Exposure time: 72 h
Toxicity to algae	Hydrotreated Light Distillate EC50 : > 1,000 mg/l Exposure time: 48 h
Toxicity to bacteria	Hydrotreated Light Distillate > 1,000 mg/l
Persistence and degradability	no data available
Mobility	The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages; Air: 10 - 30% Water: 50 - 70% Soil: 10 - 30%
Bioaccumulative potential	no data available
Environmental Hazard And Exposure Characterization	Based on our hazard characterization, the potential environmental hazard is: Moderate

13. DISPOSAL CONSIDERATIONS

Disposal methods	Where possible recycling is preferred to disposal or incineration If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations :	Dispose of as unused product Empty containers should be taken to an approved waste handling site for recycling or disposal Do not re-use empty containers.



14. TRANSPORT INFORMATION	
The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport	
Land transport	
Proper shipping name	Not regulated for transport except by Road in bulk (Combustible Liquid)
Special precautions for user	This product is classified as a combustible liquid and is not regulated for transport unless transported in bulk aboard a vehicle at the same time as a Class 3 dangerous goods in bulk or as packaged goods with an aggregate quantity exceeding 1000 litres. Refer to the Australian Code for the Transport of Dangerous Goods by Road and Rail for specific details
Air transport (IATA)	
Proper shipping name	Product is NOT regulated during transportation
Sea Transport (IMDG/IMO)	
Proper shipping name	Product is NOT regulated during transportation

15. REGULATORY INFORMATION	
Standard for the Uniform Scheduling of Medicines and Poisons	Schedule 5
International chemical control laws	
AUSTRALIA	All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS)

16. OTHER INFORMATION / REFERENCES	
Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.	
IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.	
Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.	
Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.	

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Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO

DOCUMENT CONTROL

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