

Material Safety Data Sheet

MSDS ID: CR-156

*** Section 1 - Chemical Product and Company Identification ***

PRODUCT NAME: Thermo-Gel® 200L

Supplier Name Forest Systems PTY LTD
Address 8485 Great Ocean Road
Telephone 03 52370256
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Emergency 0217056295
Email info@forestsystems.com.au

Synonym(s) Thermo-Gel, Thermo-Gel (RED PAIL/RAD LABEL), THERMO TECHNOLOGIES, THERMO-GEL 200L, FOREST SYSTEMS THERMO GEL

Use(s) WATER GELLING AGENT

MSDS Date 01 December 2007

*** Section 2 - Hazards Identification ***

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

*** Section 3 - Composition / Information on Ingredients ***

Ingredient	Formula	Content
Petroleum Hydrocarbon	Proprietary Blend	< 30%
Polyacrylate Polymer	Proprietary Blend	20-30%
Surfactant	Proprietary Blend	1-5%
Water	H2O	remainder

*** Section 4 - First Aid Measures ***

Eyes If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the PIC or a doctor, or for at least 15 minutes.

Inhalation If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

Skin Remove contaminated clothing and wash before re-use or discard. Wash affected area gently with soap and water. If irritation persists, seek medical attention.

Ingestion DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.

Advice to Doctor Treat symptomatically

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*** Section 5 - Fire Fighting Measures ***

Flammability	Petroleum hydrocarbon component, although formulated to prevent separation, if separated can burn. It has a flashpoint of about 265°F (Cleveland Open Cup). Non flammable-combustible when dry.
Fire and Explosion	Non flammable-combustible when dry. Thermal decomposition (>100°C) may occur and may evolve oxides of carbon and nitrogen. Fire fighters should wear full protective fire clothing.
Extinguishing	Dry agent, foam, carbon dioxide or water fog. Use self contained breathing apparatus and protective gear for any hostile fire. Spilled product creates slippery conditions.
PRODUCT NAME	THERMO-GEL 200L
Hazchem Code	None Allocated

*** Section 6 - Accidental Release Measures ***

Spillage	If spilt (bulk), clear area of all unprotected personnel and ventilate area. Wear splash-proof goggles, nitrile/viton gloves, a Type A (Organic vapour) respirator (where an inhalation risk exists), coveralls and boots. Absorb residues with sand or similar and place in clean containers for disposal.
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*** Section 7 - Handling and Storage ***

Storage	Store in cool, dry, well ventilated area, remove from oxidizing agents, acids, alkalis, direct sunlight, heat or ignition sources, foodstuffs, and out of the reach of children. Ensure containers are adequately labeled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate protection.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating drinking and smoking in contaminated area.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Standard	No exposure standard(s) allocated.
Biological Limits	No Biological Limit value allocated.
Engineering Controls	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.
PPE	Wear splash-proof goggles, neoprene or rubber or PVC gloves and coveralls. Where an inhalation risk exists, wear a type A (Organic vapour) Respirator.

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*** Section 9 - Physical & Chemical Properties ***

Appearance	OPAQUE WHITE LIQUID	Solubility (water)	INSOLUBLE
Odour	MILD HYDROCARBON	Specific Gravity	1.05 (APPROXIMATELY)
pH	NOT AVAILABLE	% Volatiles	NOT AVAILABLE
Vapor Pressure	NOT AVAILABLE	Flammability	COMBUSTABLE WHEN DRY
Vapor Density	NOT AVAILABLE	Flash Point	> 100°C
Boiling Point	96° C	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE	Autoignition	NOT AVAILABLE

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability	Stable under recommended conditions of storage
Conditions to Avoid	None identified
Material to Avoid	Incompatible with oxidizing agents (eg. Hypochlorities, peroxides), acids (eg. Sulphuric acid), heat and ignition sources.
Decomposition	Will not decompose during storage. May evolve oxides of carbon and nitrogen when heated to composition (> 100° C).
Hazardous Reactions	Polymerization is not expected to occur.

*** Section 11 - Toxicological Information ***

Health Hazard Summary	Low toxicity. Avoid eye contact, prolonged and repeated skin contact and vapour or mist inhalation. The petroleum hydrocarbon contained within this product is solvent refined and therefore occupational cancers associated with chronic exposure to less refined petroleum hydrocarbons are not anticipated. Solvent or highly refined petroleum hydrocarbons are not classifiable as to their carcinogenicity (IARC Group 3).
Eye	Low to moderate irritant. Exposure may result in irritation, pain, and redness.
Inhalation	Low irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing.
Skin	Low irritant. Prolonged and repeated contact may result in irritation, skin rash and dermatitis.
Ingestion	Low toxicity. Ingestion of large doses may result in nausea, vomiting, abdominal pain, diarrhea, and drowsiness.
Toxicity Data	Surfactant, proprietary blend LD50 (INGESTION): 1310 mg/kg (rat) LD50 (skin): 2000mg/kg (rabbit)

***** Section 12 - Ecological Information *****

Environment Aquatic toxicity: Rainbow trout (60 days post hatch), LC50 28 mg/L ASTM soft water, US Forest Service requirement LC50 > or = 10 mg/L

***** Section 13 - Disposal Considerations *****

Waste Disposal Reuse where possible or return to manufacturer/supplier. Do not release remaining concentrate to drains or waterways. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

***** Section 14 - Transportation Information *****

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADE CODE

Shipping Name	None Allocated				
UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

***** Section 15 - Regulatory Information *****

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

***** Section 16 - Other Information *****

Other Information The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to 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.