



MATERIAL SAFETY DATA SHEET

Donaldson Thermo-Tech PG Extended Life Heavy-Duty Coolant Premix

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Donaldson Thermo-Tech PG Extended Life Heavy Duty Coolant Premix

Part Numbers: P903106 - 5L
P903107 - 20L
P903108 - 205L
P903109 - 1,000L

Company: Donaldson Australasia Pty Ltd ABN: 78 000 521 200
Address: 1 Lucca Road, Wyong, NSW, 2259
Phone: 1800 FILTER (345 837) Fax: (02) 4351 2036
Emergency Telephone Number: 0419 885 862 Day, After Hours 1300 131 001

Emergency Telephone Number New Zealand: 0800 764 766

Other Name: Glycol Coolant, Antifreeze
Manufacturer's Product Code: 50661
Recommended Use: Radiator Antifreeze, Coolant

SECTION 2: HAZARD IDENTIFICATION

Non-hazardous chemical according to classification by Safe Work Australia

Non-dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

Precautionary statements:

General

- P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS Number	Proportion (%)
Propylene Glycol	57-55-6	45-55
Non-hazardous ingredients		<5
Denatonium Benzoate	3734-33-6	10ppm
Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

FIRST AID TREATMENT

Description of necessary first aid measures

- Inhalation:** Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If irritation persists, seek medical attention.
- Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists, seek medical advice.
- Ingestion:** If swallowed, do NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek medical advice as a precaution.

Symptoms caused by exposure

- Inhalation:** May cause irritation to mucous membranes and respiratory tract.
- Skin:** May cause irritation
- Eye:** May cause irritation
- Ingestion:** May result in nausea, vomiting and irritation of the gastrointestinal tract

Medical attention and special treatment

Treat symptomatically

SECTION 5: FIRE FIGHTING MEASURES

- Suitable Extinguishing Equipment:** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.
- Specific hazards arising from the chemical:** When heated to decomposition, emits acrid smoke and irritating fumes. Not a product presenting risks of explosion.
- Special protective equipment and precautions for fire fighters:** Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid contact with spilled or released material. Do NOT ingest. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Ventilate contaminated area thoroughly.

Environmental precautions: Use appropriate contaminate to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth or other appropriate barriers.

Methods and materials for containment and cleaning up:

For small spills (<1 drum), dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

For larger spills (>1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or appropriate disposal.

Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely in accordance with regional regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing vapours. Do not ingest. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Handle and open containers with care in a well ventilated area. Ensure that the workplace is well ventilated. Do not empty into drains.

Conditions for safe storage, including and incompatibilities: Store in a cool, well-ventilated area, away from sunlight, ignition and other sources of heat. Do not store near strong oxidisers.

SECTION 8: EXPOSURE CONTROLS PERSONAL PROTECTION

Exposure control measures:	None assigned
Biological monitoring	No biological limit allocated.
Engineering controls	Ensure that adequate ventilation is provided. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

Individual protection measures

Eye and face protection:	Wear safety goggles
Skin protection:	Use solvent resistant gloves, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red Liquid
Odour	None
Odour threshold (ppm)	Data not available
pH:	7.5 to 8.5 (1% in water)
Melting point/freezing point (°C)	-31
Initial boiling point and boiling range (°C)	105
Flash point (°C)	Data not available
Evaporation rate (Butyl acetate = 1)	Data not available
Flammability	Not combustible
Upper/lower flammability or explosive limits (%)	Data not available
Vapour pressure (mmHg @ 20°C)	0.06
Vapour density (air=1)	>1
Density (g/ml @ 15°C)	1.048 - 1.058
Solubility	Soluble in water, methanol, diethyl ether
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature (°C)	> 400
Decomposition temperature (°C)	Data not available
Kinematic viscosity (mm ² /s @ 20°C)	Data not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions of use.
Chemical Stability	Stable under normal conditions of use
Possibility of hazardous reactions	Stable under normal conditions of use
Conditions to avoid	None
Incompatible materials	Strong oxidising agents, acids, alkalis
Hazardous decomposition products	Burning can produce carbon monoxide and/or carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Low toxicity in animals Propylene Glycol: LD50 Oral (rat) > 20,000mg/kg
Skin corrosion/irritation:	Contact with skin may cause irritation. Has a degreasing effect on the skin
Serious eye damage/irritation:	May cause minor eye irritation
Respiratory or skin sensitisation:	Not expected to be a sensitiser
Germ cell mutagenicity:	No evidence of mutagenic activity
Carcinogenicity	Not carcinogenic in animal studies
Reproductive toxicity	Not expected to impair fertility
Specific target Organ Toxicity (STOT) - single exposure	May cause irritation to the lungs and respiratory system
Specific Target Organ Toxicity (STOT) - repeated exposure	Repeated excessive ingestion may cause central nervous system effects
Aspiration hazard	Not considered an aspiration hazard

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity:

Fish	Low toxicity: LC/EC/IC50 > 100mg/l
Aquatic invertebrate	Low toxicity: LC/EC/IC50 > 100mg/l
Algae	Low toxicity: LC/EC/IC50 > 100mg/l
Microorganisms	Expected to have low toxicity: LC/EC/IC50 > 100mg/l

Chronic toxicity:

Fish	Data not available
Aquatic invertebrate	Data not available
Algae	Data not available
Microorganisms	Data not available

Persistence and degradability

Biodegradable

Bioaccumulative potential

Data not available

Mobility in soil

Miscible with water

Other adverse effects

Data not available

SECTION 13: DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number:	Not applicable
Proper shipping name:	Not applicable
Australian Dangerous Goods class:	Not applicable
Australian Dangerous Goods packing group:	Not applicable
Hazchem code:	Not applicable

SECTION 15: REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	Not scheduled
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	Not applicable

SECTION 16: OTHER INFORMATION

Further information may be obtained by contacting Donaldson Australasia Pty Ltd on 1800 FILTER (345 837).

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