



MATERIAL SAFETY DATA SHEET

Donaldson Thermo-Tech OAT Heavy-Duty Coolant Premix

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Donaldson Thermo-Tech OAT Heavy-Duty Coolant Premix

Part Numbers: P903110 - 5L
P903111 - 20L
P903112 - 205L
P903113 - 1,000L

Company: Donaldson Australasia Pty Ltd ABN: 78 000 521 200
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Other Name: Radiator Coolant
Manufacturer's Product Code: 19859
Recommended Use: Radiator 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

Hazardous Ingredients

Chemical Entity	CAS Number	Proportion (%)
Non-hazardous corrosion inhibitors	-	<5
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. Seek medical advice as precaution.

Symptoms caused by exposure

- Inhalation:** Unlikely to cause any discomfort or irritation in normal use
- Skin:** Unlikely to cause any discomfort or irritation in normal use
- Eye:** May cause mild discomfort
- Ingestion:** May cause mild irritation to 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** None expected,
- 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 containment 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), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (>1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

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 such that Occupational Exposure limit is not exceeded. 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, nitrile for longer term protection or PVC and neoprene for incidental splashes.

Respiratory protection: If ventilation inadequate, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask 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: IDENTIFICATION

PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES

Appearance	Green liquid
Odour	None
Odour threshold (ppm)	Data not available
pH	7.5 - 9.0
Melting point/freezing point (°C)	0 (approx.)
Initial boiling point and boiling range (°C)	100 (approx.)
Flash point (°C)	Data not available
Evaporation rate (Butyl acetate =1)	Data not available
Flammability	Not flammable
Upper/lower flammability or explosive limits (%)	Data not available
Vapour pressure (mmHg @ 20°C)	Data not available
Vapour density (air=1)	Data not available
Density (g/ml @ 15°C)	1.01 - 1.02
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature (°C)	Data not available
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
Hazardous decomposition products	None

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Non-hazardous
Skin corrosion/irritation:	May cause skin irritation; prolonged contact may cause dermatitis
Serious eye damage/irritation:	May cause 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	Data not available
Aspiration hazard	Not considered an aspiration hazard

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity:

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

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

Does not bioaccumulate significantly

Mobility in soil

Miscible with water

Other adverse effects

Data not available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: 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 1800 FILTER (345 837)

Date of preparation:	25/09/2014
Revision number:	2
Changes in this revision:	Update to GHS SDS standard

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