



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Tx HDD-NF ANTIFREEZE BLUE CONCENTRATE**

Other names: Glycol, Engine Coolant, Antifreeze

Suppliers Product Code: Tx-RC542/* (includes package size)

Recommended Use: Radiator Antifreeze, Engine Coolant

Supplier: Transdiesel Ltd

Address: 533 Halswell Junction Road, Hornsby,
CHRISTCHURCH 8042

Telephone: +64 3-349 8738, 0800 848 267
8.00 am to 5.00 pm, Monday to Friday

New Zealand Poisons Centre 0800 POISON (764 766)
24 hours everyday

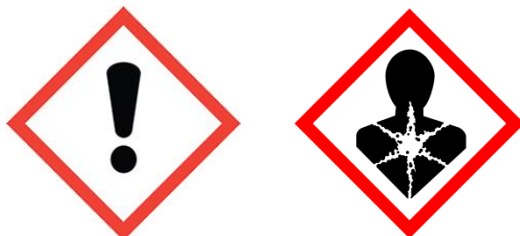
SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

HSNO Approval Number: HSR002606

Signal Word: **DANGER**

Hazard Pictograms:



Product: Tx HDD-NF ANTIFREEZE BLUE CONCENTRATE

HSNO Hazard Classification:

- 6.1D Acute Toxicity (Oral)
- 6.4A Eye Irritation – (Irritant)
- 6.8B Reproductive And Development Toxicity (Unborn Child)
- 6.9A Specific Target Organ Toxicity (Single Or Repeat Exposure)
- 9.3C Terrestrial Vertebrate Ecotoxicity

Risk Phrases: Harmful if swallowed
Causes serious eye damage
Suspected of damaging fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure
Harmful to terrestrial invertebrates

Response Statements:
If medical advice is needed, have product container or label at hand
IF SWALLOWED call a POISON CENTER or doctor/physician
Rinse mouth
IF IN EYES rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists get medical advice/attention.
Get medical advice/attention if you feel unwell

Prevention Statements:
Keep out of reach of children
Read label before use
Wash hands thoroughly after handling
Do not eat, drink, or smoke when using product
Use personal protective equipment as required
Avoid release to the environment

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

<i>Chemical Entity:</i>	<i>CAS Number:</i>	<i>Proportion</i>
Mono Ethylene Glycol	107-21-1	90 – 98 %
Denatonium Benzoate	3734-33-6	10 ppm

SECTION 4 FIRST AID MEASURES

FIRST AID TREATMENT:

Swallowed:

If SWALLOWED, do **NOT** induce vomiting. Have conscious person drink several glasses of water or milk. **SEEK IMMEDIATE MEDICAL ATTENTION.**

Eye:

If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists seek medical attention

Skin:

If skin contact occurs, wash skin thoroughly with water and follow by washing with soap if available. If irritation persists seek medical attention

Inhaled:

Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

First Aid Facilities: Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

Advice to Doctor: Treat symptomatically.

Additional Information: None Available.

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

For a small fire use dry chemicals, carbon dioxide, water spray or foam. For large fires use water spray or fog. Do not use water jet.

Hazards from combustion products:

Carbon dioxide and carbon monoxide.

Precautions for Fire Fighters and Special Protective Equipment:

Wear full protective clothing and self-contained breathing apparatus.

Additional Information:

When heated to decomposition, emits acrid smoke and irritating fumes. Not a product presenting risks of explosion

SECTION 6 ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations.

Spills and Disposal, Methods and Materials for Containment and Clean Up Procedures:

For small spills, dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. For large spills, absorb with an

Product: Tx HDD-NF ANTIFREEZE BLUE CONCENTRATE

inert material and put the spilled material in an appropriate waste disposal container. Dispose of in accordance with regional regulations.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling and Storage:

Avoid contact with eyes, skin and clothing. DO NOT ingest. Avoid breathing vapour and mist, keep container closed. Keep container in a cool, well-ventilated area, away from strong oxidisers, and use only with adequate ventilation. Avoid all possible sources of ignition. Wash thoroughly after handling. Before eating, drinking or smoking, remove contaminated clothing. Do not eat, drink or smoke in contaminated areas.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard of:

52mg/m³ (20ppm) TWA (vapour), 104mg/m³ (40ppm) STEL (vapour)
10mg/m³ TWA (particulate).

Biological Limit Values:

No biological limit allocated.

Personal Protective Equipment:

Respiratory Protection:

Wear appropriate respirator when ventilation is inadequate.

Hand Protection: Use solvent resistant gloves (nitrile, PVC or neoprene).

Eye Protection: Wear safety goggles.

Protective Clothing:

No special protection is ordinarily required beyond standard issue work clothes.

Engineering Controls:

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue viscous liquid
Odour:	None
pH:	7.5 to 8.5 (1% in water)
Vapour Pressure (mmHg @ 20°C):	0.06
Vapour Density (air = 1):	2.1
Boiling Point (°C):	197
Freezing/Melting Point (°C):	-13
Solubility in Water:	Soluble in water, methanol, diethyl ether

Product: Tx HDD-NF ANTIFREEZE BLUE CONCENTRATE

Specific Gravity (g/ml @ 15°C):	1.115 - 1.145
Flashpoint (°C):	116.1 (Closed Cup)
Flammability Limits (%):	3.2 - 15.3
Auto Ignition Temperature (°C):	412
Percent Volatiles:	0

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: No additional remark.

Incompatible Materials: Strong oxidising agents, acids, alkalis.

Hazardous Decomposition Products:

Burning can produce carbon monoxide and/or carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Acute:

Swallowed: Hazardous in case of ingestion (approx. 100ml can be fatal).

Eye: Contact may cause eye irritation.

Skin: Irritant – prolonged contact may cause dermatitis.

Inhaled: Inhalation should be minimal since vapours are unlikely due to physical properties. Inhalation may cause irritation to lung.

Chronic: Toxic to kidneys and liver.

Toxicity to Animals:

Acute oral toxicity (LD50): 4700mg/kg (Rat).

Acute dermal toxicity (LD50): 9530 mg/kg (Rabbit).

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	Low toxicity: LC/EC/IC50 > 100mg/l
Aquatic Invertebrates:	Low toxicity: LC/EC/IC50 > 100mg/l
Algae:	Low toxicity: LC/EC/IC50 > 100mg/l
Microorganisms:	Low toxicity: LC/EC/IC50 > 100mg/l

Mobility: Miscible with water.

Persistence/degradability: Biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods:

Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number	Non Regulated
Proper Shipping Name:	N/A
Class:	N/A
Subsidiary Risk:	N/A
Packing Group:	N/A
Hazchem Code:	N/A
Special Precautions for User:	None

SECTION 15 REGULATORY INFORMATION

NEW ZEALAND REGULATORY INFORMATION

HSNO Approval Number: HSR002606

HSNO Group Standard: Lubricant, Lubricant Additives, Coolants, and Antifreeze Agents (Subsidiary Hazard) Group Standard 2006

HSNO Classification:	6.1D	ACUTE TOXICITY (Oral)
	6.4A	EYE IRRITATION (Irritant)
	6.8B	REPRODUCTIVE AND DEVELOPMENT TOXICITY (Unborn Child)
	6.9A	SPECIFIC TARGET ORGAN TOXICITY (Single or repeat exposure)
	9.3C	TERRESTRIAL VERTEBRATE ECOTOXICITY

SECTION 16 OTHER INFORMATION

Date of Issue:	19/12/2017
Date of Previous/Revised Issue:	05/05/2014
Version:	2

Further information may be obtained by contacting Transdiesel on (03) 349 8738

The information sourced for the preparation of this document was correct and complete at the time or writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.
