



51517A/51520

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RADIATOR TREATMENT

Material Safety Data Sheet

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Wynn's Radiator Treatment
Other Names	51517A 200 litres / 51520 20 litres Sodium Nitrite / SUSDP Schedule 6
Recommended Use	Corrosion Inhibitor for engine cooling systems
Supplier Name	Wynn's Australia Pty Ltd An (ITW), Illinois Tool Works Company ABN 73 000 370 150
Address	100 Hassall Street, Wetherill Park NSW 2164 Private Bag 35, Wetherill Park NSW 2164
Telephone Number	(02) 9828 0900 Email: wynnsaus@wynns.net Website: www.wynns.net
Emergency Phone Number	(02) 9828 0900 Monday-Friday 8.00am – 5.00pm 13 11 26 (24 hours Australia) Poisons Information Centre (PIC) 0800 764 766 (New Zealand) Poisons Information Centre (PIC)

SECTION 2 HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Classified as hazardous according to the criteria of NOHSC. Not classified as a Dangerous Good according to the Australian Code for Transport of Dangerous Goods by Road and Rail.
Risk Phrase	R22 Harmful if swallowed.
Safety Phrase	S1/2 Keep locked up and out of the reach of children. S45 In case of accident or if you feel unwell, seek medical advice immediately and show the label whenever possible.

SECTION 3	COMPOSITION/INFORMATION ON INGREDIENTS
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Pure substances Not applicable – Mixture.

Mixtures	Chemical Identity	CAS Number	Proportion
	Water	7732-18-5	>60%
	Sodium Nitrite	7632-00-0	<10%
	Sodium Nitrate	7631-99-4	<10%
	Other non-hazardous ingredients	-	<10%

SECTION 4	FIRST AID MEASURES
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Ingestion If swallowed, do NOT induce vomiting. For advice, contact a Poisons Information Centre or a doctor at once.

Skin If skin contact occurs, remove contaminated clothing, and flush skin with running water. Seek medical attention in event of irritation.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Inhalation Remove person to fresh air.

First Aid Facilities Eye wash fountain.

Advice to Doctor Contains 49 g/L Sodium Nitrite. Treatment should be controlled by symptoms and clinical conditions by the attending doctor.

SECTION 5	FIRE FIGHTING MEASURES
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Suitable Extinguishing Media Water, water spray, foam, dry chemicals.

Hazards From Combustion Products Use water to cool fire exposed containers.

Precautions For Fire Fighters Fire fighters to wear self contained breathing apparatus.

Special Protective Equipment None required.

Hazchem Code None assigned.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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Emergency Procedures	Keep liquid out of sewers and waterways.
Methods and Materials for Containment and Clean Up Procedures	Absorb spilled liquid with inert absorbent. Shovel into solid waste containers. Dispose of in accordance with Federal, State and Local requirements.

SECTION 7	HANDLING AND STORAGE
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Precautions for Safe Handling	CAUTION: Alkaline liquid. Avoid skin and eye contact. Wear impervious gloves and suitable eye protection.
Conditions for Safe Storage	Store in a cool well ventilated area and away from foodstuff. Avoid freezing. Do not store opened unenclosed drums. KEEP OUT OF REACH OF CHILDREN.

SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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National Exposure Standards

Name	ES-TWA	ES-STEL	ES-Peak
None established for product.	-	-	-
None established for ingredients.	-	-	-

Alternative Standards

Sodium Nitrite	OSHA (PEL)	Not established
	ACGIH (TLV-TWA)	Not established

Contains no other ingredients now known to be hazardous as defined by OSHA 29CFR 1910.1000(z) and 29CFR 1910.1200.

Biological Limit Values No biological limit allocated.

Engineering Controls Normal ventilation

Personal Protective Equipment

Respiratory Protection None required.

Eye / Face Protection Industrial safety glasses with side shields or chemical goggles.

Skin Protection PVC or Nitrile gloves. Safety shoes or boots.

Thermal Hazards None required.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear dark green liquid
Odour	Mild alkaline salts odour
pH Value	10.8 (100% concentration) 10.5 (5% concentration in distilled water)
Vapour Pressure	Irrelevant
Vapour Density	Irrelevant
Boiling Point/Range	100°C
Freezing Point	0°C
Melting Point	Not applicable
Solubility	100% in water
Density	1.080 @ 15°C
Flash Point	None
Flammable Limits	Not applicable
Ignition Temperature	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to Avoid	Flammable hydrogen gas may be produced on prolonged contact with tin, lead and zinc containers. Avoid storing in such containers. Store in plastic drums or containers.
Incompatible Materials	Acids, ammonium salts, oxidizing agents.
Hazardous Decomposition Products	When heated to decomposition, it emits toxic fumes of NO _x and Na ₂ O. Flammable hydrogen gas may be produced on prolonged contact with tin, lead or zinc.
Hazardous Reactions	Polymerization will not occur. Reacts with acids to produce heat.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicology Information	Sodium Nitrite is harmful if swallowed according to NOHSC.
Acute Health Effects	
Ingestion	May cause nausea and vomiting. Will cause digestive tract irritation. The liquid is discomforting to the gastro-intestinal tract and may be harmful if swallowed in large quantity.
Inhalation	Not normally a hazard due to non-volatile nature of product. The mist is discomforting to the upper respiratory tract.

Eye	Irritate the eyes and may cause redness. The liquid is discomforting to the eyes and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.
Skin	May absorb through skin on prolonged contact. Will cause irritation to the skin and skin defatting. The liquid is discomforting to the skin if exposure is prolonged and is capable of causing skin reactions which may lead to dermatitis from repeated exposures over long periods.
Chronic Health Effects	
Ingestion	<p>Sodium Nitrate is a human poison by ingestion. Human systemic effects by ingestion : motor activity changes, coma, decreased blood pressure with possible pulse rate increase without fall in blood pressure, arteriolar or venous dilation, nausea or vomiting. Experimental teratogenic and reproductive effects. Human mutation data reported. They may react with Sodium Nitrite with organic amines in the body to form carcinogenic nitrosamines.</p> <p>This material has not been identified as a carcinogen by NTP, IARC or OSHA. If large quantities are ingested, may cause central nervous system effect.</p> <p>Oral (human) LDLo: 71 mg/kg Oral (human) TDLo: 14 mg/kg Oral (man) TDLo: 1.71 mg/kg/70M Oral (rat) LD50: 180 mg/kg</p>
Eye	Eye (rabbit): 500 mg/24hr – mild
Inhalation	Inhalation (rat) LC50: 5.5 mg/m ³ /4H

SECTION 12	ECOLOGICAL INFORMATION
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Ecotoxicity	<p>The material is classified as an ecotoxin because the Fish LC50 (96 hours) is less than or equal to 0.1 mg/l.</p> <p>Classification of Substances as Ecotoxic (Dangerous to the Environment) Appendix 8, Table 1 Compiler's Guide for the Preparation of International Chemical Safety Cards: 1933 Commission of the European Communities Toxicity invertebrate: LC50(48)33-100mg/L</p>
Persistence/ Degradability	Not available
Mobility	Miscible with water.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods	Dispose as waste engine coolant in drums. Do not dispose in sewage or waterways.
Special Precautions for Landfill or Incineration	Dispose of aqueous liquid waste in accordance to Federal, State and Local Government regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number	None allocated
Proper Shipping Name	None allocated
Class and Subsidiary Risk	None allocated
Packing Group	None allocated
Special Precautions for User	None required
Hazchem Code	None allocated

SECTION 15 REGULATORY INFORMATION

Poisons Schedule	Sodium Nitrite / Schedule 6 SUSDP No. 21 (2006).
Hazard Category	Harmful / NOHSC : 10005 (1999). All ingredients present on AICS.

SECTION 16	OTHER INFORMATION
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Acronyms

ABN	Australian Business Number
ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Dangerous Goods
AICS	Australian Inventory of Chemical Substances
AS	Australian Standard
CAS	Chemical Abstracts Service (USA)
COC	Cleveland Open Cup
EPA	Environment Protection Agency (Australian States)
IARC	International Agency for Research on Cancer
IP	Institute of Petroleum (UK)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOHSC	National Occupational Health and Safety Commission (Australia)
NTP	National Toxicology Program (USA)
NZS	New Zealand Standard
OSHA	Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Level
PMCC	Pensky – Martens Closed Cup
SCBA	Self-Contained Breathing Apparatus
STEL	Short Term Exposure Limit
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations

Abbreviations

cP	centiPoise
cSt	centiStoke
g	gram
Hg	Mercury
kPa	kiloPascal
L	litre
m ³	cubic metre
mg	milligram
mL	millilitre
mm	millimetre
°C	degrees of temperature in Celsius (Centigrade)
%	percent(age)

Note

This form has been prepared in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)] issued by the National Occupation Health and Safety Commission April 2003.

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END OF MATERIAL SAFETY DATA SHEET