# Radiator Treatment (Red)

## Material Safety Data Sheet

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

| | |
|---|---|
| **Product Name** | Wynn's Radiator Treatment Red (old name: Cooling System Treatment) |
| **Other Names** | 51502 20 litres<br>Sodium Nitrite / SUSDP Schedule 6 |
| **Recommended Use** | Corrosion Inhibitor for engine cooling systems |
| **Supplier Name** | Wynn's Australia Pty Ltd<br>An (ITW), Illinois Tool Works Company<br>ABN 73 000 370 150 |
| **Address** | 100 Hassall Street, Wetherill Park NSW 2164<br>Private Bag 35, Wetherill Park DC NSW 2164 |
| **Telephone Number** | (02) 9828 0900<br>Email: wynnsaus@wynns.net<br>Website: www.wynns.net |
| **Emergency Phone Number** | (02) 9828 0900 Monday-Friday 8.00am – 5.00pm<br>13 11 26 (24 hours Australia) Poisons Information Centre (PIC)<br>0800 764 766 (New Zealand) Poisons Information Centre (PIC) |

## SECTION 2 HAZARDS IDENTIFICATION

| | |
|---|---|
| **Hazard Classification** | HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.<br>Classified as hazardous according to the criteria of NOHSC.<br>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.<br>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

**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

**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

**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

**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

**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

**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 rhodamine red liquid |
| **Odour** | Mild alkaline salts odour |
| **pH Value** | 11.9 (100% concentration)<br>11.6 (5% concentration in distilled water) |
| **Vapour Pressure** | Irrelevant |
| **Vapour Density** | Irrelevant |
| **Boiling Point/Range** | 100ºC |
| **Freezing Point** | 0ºC |
| **Melting Point** | Not applicable |
| **Solubility** | 100% in water |
| **Density** | 1.080 @ 15ºC |
| **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 NOx and $Na_2O$. 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** 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.

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.

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

**Eye** Eye (rabbit): 500 mg/24hr – mild

**Inhalation** Inhalation (rat) LC50: 5.5 mg/m3/4H

## SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity** The material is classified as an ecotoxin because the Fish LC50 (96 hours) is less than or equal to 0.1 mg/l.

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

**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

**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 Valve |
| 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 |
| ºC | 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.

All information contained in this form is as accurate as possible at the time of issue. The data contained herein is not to be taken as an expressed or implied warranty or representation, for which Wynn's Australia Pty Ltd assumes legal responsibility. No responsibility for damages resulting from use of the information are given, other than those implied mandatorily by Federal or State Government Legislation.

# END OF MATERIAL SAFETY DATA SHEET