

## V-TREAT 300

### Scale and Corrosion Inhibitor

Classified as: Hazardous according to the EPA Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

#### SECTION 1: SUBSTANCE AND SUPPLIER DETAILS

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<b>Product Name:</b>	V-TREAT 300
<b>Supplier:</b>	Visentia Ltd 119 Carbine Road Mt Wellington Auckland 1060 New Zealand
<b>Telephone:</b>	+64 9 216 9824
<b>Recommended Use:</b>	Water Treatment Chemical
<b>In Case of Emergency Contact:</b>	0800 CHEMCALL (243 622)

#### SECTION 2: HAZARDS IDENTIFICATION

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V-TREAT 300 is classified as a Dangerous Good for Transport.

V-TREAT 300 is classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

Classified under the group standard "Water Treatment Chemicals (Oxidising [5.1.1]) Group Standard 2017".

**HSNO Approval Number:** HSR002683

**HSNO Classifications:**

- 5.1.1C – Oxidising liquid
- 6.1D – Acutely toxic, oral
- 6.4A – Irritating to eyes
- 6.6B – Suspected human mutagen
- 6.9B – Harmful to human target organs or systems
- 9.1B – Ecotoxic in the aquatic environment
- 9.3C – Harmful to terrestrial vertebrates

**GHS Classification:**

- Oxidising solids – Category 3
- Acute toxicity oral – Category 4
- Serious eye damage/eye irritation – Category 2
- Germ cell mutagenicity – Category 2
- Specific target organ systemic toxicity (repeated exposure) – Category 2
- Aquatic toxicity, chronic – Category 2



Notes: There is no GHS equivalent for ecotoxicity to terrestrial vertebrates.

**Hazard Statements:**

- H272 – May intensify fire; oxidiser
- H302 – Harmful if swallowed
- H319 – Causes serious eye irritation
- H341 – Suspected of causing genetic defects
- H373 – May cause damage to organs through prolonged or repeated exposure via ingestion
- H411 – Toxic to aquatic life with long-lasting effects
- H433 – Harmful to terrestrial vertebrates

**GHS Pictograms:**



**Signal Word:**

WARNING

**Prevention Statements:**

- P102 – Keep out of reach of children.
- P201 – Obtain special instructions before use.
- P202 – Do not handle until all safety precautions have been read and understood.
- P210 – Keep away from heat/open flames.
- P220 – Keep away from clothing/organic materials/combustible materials.
- P221 – Take any precaution to avoid mixing with combustibles/organic materials.
- P260 – Do not breathe mist/vapours/spray.
- P264 – Wash hands, exposed skin, thoroughly after handling.
- P270 – Do not eat, drink or smoke when using this product.
- P273 – Avoid release to the environment.
- P280 – Wear protective gloves, protective clothing, eye protection, face protection.
- P281 – Use personal protective equipment as required.

**Response Statements:**

- P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 – Rinse mouth.
- P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 – If eye irritation persists: Get medical advice/attention.
- P308 + P313 – If exposed or concerned: Get medical advice/attention.



P370 + P378 – In case of fire: Use flooding with large quantities of water to extinguish. Do not use ABC extinguishers, dry chemical, carbon dioxide or halogenated extinguishers.

P391 – Collect spillage.

**Storage:** P405 – Store locked up.

**Disposal:** P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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Main Component	CAS Number	Concentration
Sodium nitrite	7632-00-0	10 - <25%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### SECTION 4: FIRST AID MEASURES

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<b>Workplace Facilities Required:</b>	Eye wash and safety shower facilities should be provided.
<b>If Inhaled:</b>	Remove to fresh air. Seek medical attention if symptoms persist.
<b>In Contact with Eye:</b>	Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops and persists.
<b>In Contact with Skin:</b>	Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.
<b>If Swallowed:</b>	DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.
<b>Advice to Doctor:</b>	Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

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<b>Fire/Explosion Hazard:</b>	Product is not flammable or combustible but releases oxygen which may intensify a surrounding fire. Heating may cause containers to rupture.
<b>Suitable Extinguishing Media:</b>	Use large quantities of water. Contain fire water. Do not use dry powder, carbon dioxide or halogenated extinguishants. Two extinguishers are required for quantities >500L.
<b>Precautions in Connection with Fire:</b>	May give off noxious fumes in a fire containing nitrous oxides.
<b>Advice for firefighters:</b>	Wear full firefighting gear and self-contained breathing apparatus. Cool fire exposed containers with water spray. Remove containers from path of fire if safe to do so.



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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 1000L.

<b>Precautions:</b>	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid generating mists/spray. Avoid release to the environment. If spill does enter waterways inform the relevant authority (e.g. Local Council Pollution hotline).
<b>Suitable Protective Equipment:</b>	Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, safety goggles or face shield and respiratory protection if there is a risk of inhaling mists/spray.
<b>Spill or Leak Procedures:</b>	Contain the spill. Remove any sources of ignition. Use sand, earth or other clean inert materials to soak up spill. DO NOT use organic absorbent material such as sawdust, cloth or paper. Using non-sparking tools, collect spill into a clean, properly labelled container. Decontaminate equipment and launder protective clothing before storage and re-use.
<b>Waste Disposal Methods:</b>	Dispose of as per Section 13.
<b>Emergency Preparation:</b>	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

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**SECTION 7: HANDLING AND STORAGE**

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<b>Precautions for Safe Handling:</b>	Avoid contact with skin and eyes. Do not breathe mists/spray. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas. Keep away from organic and combustible materials.
<b>Storage:</b>	Keep container tightly closed when not in use. Store in original container in a cool, dry, well-ventilated area. Keep away from food, drink and animal feed. Packages must be separated from other hazardous substance locations and ignition sources by at least 5 metres.
<b>Site Storage Requirements:</b>	Site Signage will be required when quantities exceed 1000L.

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**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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<b>Workplace Exposure Standards NZ:</b>	No Workplace Exposure Standards have been established for this product.
<b>Engineering Controls:</b>	Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates mists/spray, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.
<b>Personal Protective Equipment:</b>	Avoid contact with the skin and eyes. Avoid inhaling mists/spray.
<b>Hand protection:</b>	Wear protective gloves that are not organic and are resistant to the product. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
<b>Skin and body protection:</b>	Use protective clothing, e.g. overalls, PVC apron. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
<b>Eye protection:</b>	Use chemical safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.



<b>Respiratory protection:</b>	Where there is inadequate ventilation and use results in the formation of mists/spray, use a respirator. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection.
<b>Other information:</b>	PPE selected must be impervious to the substance. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating, drinking or smoking. Handle in accordance with safe industrial hygiene practices.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Description:</b>	Liquid	<b>Colour:</b>	Pale yellow
<b>Odour:</b>	Not available	<b>Odour Threshold:</b>	Not available
<b>pH (25°C):</b>	11	<b>Solubility (water, 25°C):</b>	Soluble
<b>Melting/Freezing point:</b>	Not available	<b>Boiling Point:</b>	100°C
<b>Flammability:</b>	Non-flammable	<b>Flash Point:</b>	Not applicable
<b>UEL/LEL:</b>	Not applicable	<b>Vapour Pressure (20°C):</b>	Not available
<b>Decomposition Temp:</b>	Not available	<b>Autoignition Temp:</b>	Not applicable
<b>Relative Density:</b>	1.15 – 1.20	<b>Vapour Density:</b>	Not applicable
<b>Partition Coefficient:</b>	Not available	<b>Viscosity:</b>	Not available
<b>n-octanol/water</b>			

## SECTION 10: STABILITY AND REACTIVITY

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<b>Stability:</b>	Stable under handling and storage conditions.
<b>Reactivity:</b>	Reacts with organic compounds and reducing agents releasing oxygen which may intensify a fire.
<b>Conditions to Avoid:</b>	Do not store near paper, cardboard, or other readily combustible organic material.
<b>Incompatibility:</b>	Incompatible with reducing agents, organic materials, cyanates, ammonium salts and strong acids.
<b>Hazardous Decomposition:</b>	Decomposes to form nitrous oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute Exposure

<b>Acute Toxicity:</b>	LD50 oral > 300 to ≤ 2000 mg/kg. LD50 dermal > 5000 mg/kg LC50 inhalation > 5.0 mg/L
<b>Inhalation:</b>	Inhaling high concentrations of mists/spray may cause irritation, coughing, shortness of breath.
<b>Ingestion:</b>	Harmful if swallowed. May cause gastrointestinal irritation, nausea and vomiting.
<b>Skin Contact:</b>	Not classified as a skin irritant.
<b>Eye Contact:</b>	Irritating to eyes.
<b>Sensitiser:</b>	Not expected to be a respiratory or contact sensitiser.

**Chronic Exposure****Mutagen, Carcinogen, or Reproductive Toxicant:**

Suspected of causing genetic defects.

**Specific Target Organ Systemic Toxicity:**

Product is harmful to human target organs or systems via ingestion.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

**SECTION 12:****ECOLOGICAL INFORMATION****Ecotoxicity:**

LC50 &gt; 1mg/L to ≤ 10 mg/L for fish.

Product is toxic to aquatic life and harmful to terrestrial vertebrates. Avoid losses to the environment wherever possible.

**Persistence/degradability:**

Product is rapidly degradable.

**Bio-accumulation:**

Not bio accumulative.

**Mobility:**

Product is soluble in water.

Ecotoxicity data is based on hazardous ingredient information.

**SECTION 13:****DISPOSAL CONSIDERATIONS****Disposal:**

Recycle and reuse wherever possible. Dispose of waste product via an approved waste disposal contractor.

**Disposal of Packaging:**

Packaging may contain product residues and should be treated as hazardous. Dispose of packaging via an approved waste disposal contractor.

**SECTION 14:****TRANSPORT INFORMATION**

V-Treat 300 is classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.

**Hazchem Code: 2Y****NZS5433:2012**

UN No: 3139

Proper Shipping Name: Oxidising liquid, n.o.s. (contains sodium nitrite)

Class: 5.1

Packing Group: III

Limited Quantity: 5L

**IMDG:**

UN No: 3139

Proper Shipping Name: Oxidising liquid, n.o.s. (contains sodium nitrite)

Class: 5.1

Packing Group: III



	Marine Pollutant: Yes
	EmS: F-A, S-Q
	Limited Quantity: 5L
<b>IATA:</b>	UN No: 3139
	Proper Shipping Name: Oxidising liquid, n.o.s. (contains sodium nitrite)
	Class: 5.1
	Packing Group: III
	ERG Code: 5L
	Special Provisions: A3
	Cargo Only: Packing Instructions – 555, Maximum Quantity/Pack – 30L
	Passenger and Cargo: Packing Instructions – 551, Maximum Quantity/Pack – 2.5L
	Passenger and Cargo Limited Quantity: Packing Instructions – Y541, Maximum Quantity/Pack – 1L

Ensure transportation methods prevent leakage from packages and collapsing loads.

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## SECTION 15: REGULATORY INFORMATION

<b>Group Standard Allocation:</b>	Water Treatment Chemicals (Oxidising [5.1.1]) Group Standard 2017
<b>HSNO Approval Code:</b>	HSR002683
<b>HSNO Classifications:</b>	5.1.1C – Oxidising liquid 6.1D – Acutely toxic, oral 6.4A – Irritating to eyes 6.6B – Suspected human mutagen 6.9B – Harmful to human target organs or systems 9.1B – Ecotoxic in the aquatic environment 9.3C – Harmful to terrestrial vertebrates
<b>This substance triggers:</b>	Compliance Certificate – 1000L Certified Handler – N/A Emergency Response Plan – 1000L Secondary Containment – 1000L Signage – 1000L  This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

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## SECTION 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.



This substance is approved under HSNO for use as a water treatment chemical. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 18/06/2019

Reason for Revision: Update to New Zealand regulatory requirements.

References: EPA NZ Chemical Classification and Information Database  
EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014

**END OF SAFETY DATA SHEET**