

V-TROL 240

Multifunctional Boiler Water Treatment

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

SECTION 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name:	V-TROL 240
Supplier:	Visentia Ltd 119 Carbine Road Mt Wellington Auckland 1060 New Zealand
Telephone:	+64 9 216 9824
Recommended Use:	Water Treatment Chemical
In Case of Emergency Contact:	0800 CHEMCALL (243 622)

SECTION 2: HAZARDS IDENTIFICATION

V-TROL 240 is classified as a Dangerous Good for Transport.

V-TROL 240 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 (Corrosive) Group Standard 2017".

HSNO Approval Number:	HSR002681
HSNO Classifications:	6.5A – Respiratory sensitiser 6.5B – Contact sensitiser 8.1A – Corrosive to metals 8.2B – Corrosive to skin 8.3A – Corrosive to eyes 9.2C – Harmful in the soil environment
GHS Classification:	Corrosive to metals – Category 1 Skin corrosion/irritation – Category 1B Serious eye damage/eye irritation – Category 1 Respiratory sensitisation – Category 1 Skin sensitisation – Category 1
Hazard Statements:	H290 – May be corrosive to metals



H314 – Causes severe skin burns and eye damage

H318 – Causes serious eye damage

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 – May cause an allergic skin reaction

H423 – Harmful to the soil environment

GHS Pictograms:



Signal Word:

DANGER

Prevention Statements:

P234 – Keep only in original container.

P260 – Do not breathe mist/vapours/spray.

P264 – Wash hands, exposed skin, thoroughly after handling.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P273 – Avoid release to the environment.

P280 – Wear protective gloves, protective clothing, eye protection, face protection.

P285 – In case of inadequate ventilation wear respiratory protection.

Response Statements:

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 – Wash contaminated clothing before re-use.

P304 + P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

P321 – Specific treatment (see first aid panel on this label).

P342 + P311 – If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P390 – Absorb spillage to prevent material damage.

Storage:

P405 – Store locked up.

P406 – Store in corrosive resistant container with a resistant inner liner.

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

Main Component	CAS Number	Concentration
Sodium hydroxide	1310-73-2	<10%
Sodium metabisulphite	7681-57-4	<10%

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

Workplace Facilities Required:	Eye wash and safety shower facilities should be provided.
If Inhaled:	Remove to fresh air. Seek medical attention if symptoms persist. Asthma-like symptoms may develop, and an extreme asthmatic reaction may be life-threatening.
In Contact with Eye:	Hold eyes open, flush with water for at least 15 minutes. Seek immediate medical attention. Continue flushing.
In Contact with Skin:	Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek immediate medical attention.
If Swallowed:	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.
Advice to Doctor:	Treat symptomatically. Product may cause respiratory or contact sensitisation which may not be immediately apparent.

SECTION 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Product is not flammable or combustible.
Suitable Extinguishing Media:	Use an extinguishing agent suitable for surrounding fire.
Precautions in Connection with Fire:	May give off noxious and corrosive fumes in a fire containing sulphur oxides and metal oxides.
Advice for firefighters:	Wear full firefighting gear and self-contained breathing apparatus. Remove containers from path of fire if safe to do so.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 1,000L.

Precautions:	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid generating mist/spray. Avoid release to the environment. If spill does enter waterways inform the relevant authority (e.g. Local Council Pollution hotline).
Suitable Protective Equipment:	Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, safety goggles or face shield and respiratory protection.



Spill or Leak Procedures:	Stop leak if safe to do so. Contain the spill. Spills may be neutralised with dilute acid. Use inert material such as sand, earth or vermiculite to absorb spill. Collect spilled material and place in a suitable, clean, chemical waste container. Ensure waste container is properly labelled.
Waste Disposal Methods:	Dispose of as per Section 13.
Emergency Preparation:	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes. Do not breathe mist/vapour/spray. Do not eat drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.
Storage:	Store in original container in a cool, dry, well-ventilated area. Store locked up. Keep away from food, drink and animal feed. Keep container tightly closed when not in use. Store in a contained area where any spill cannot seep into the ground or be dispersed outside the area.
Site Storage Requirements:	Site Signage will be required when quantities exceed 250L.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ:	No Workplace Exposure Standards have been established for this product. For sodium hydroxide: Ceiling 2 mg/m ³ For sodium metabisulphite: TWA 5 mg/m ³
Engineering Controls:	Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. Use in a well-ventilated area. If natural ventilation is insufficient consider engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.
Personal Protective Equipment:	Avoid contact with the skin and eyes. Avoid inhaling mist/spray.
Hand protection:	Wear protective gloves that are resistant to the product, e.g. PVC. Gloves should be elbow length. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Use protective overalls and 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.
Eye protection:	Use chemical safety goggles to protect eyes. When handling bulk quantities where there may be a risk of splashing, a face shield may also be used along with eye protection to protect the face. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	Where there is inadequate ventilation and use results in the formation of mist/vapours/spray, use a respirator. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection.
Other information:	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

Description:	Liquid	Colour:	Light straw colour
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Odour:	Not available	Odour Threshold:	Not available
pH (20°C):	>13	Solubility (water, 20°C):	Miscible
Melting point:	Not available	Boiling Point:	~100°C
Flammability:	Non-flammable	Flash Point:	Not applicable
UEL/LEL:	Not applicable	Vapour Pressure (20°C):	Not available
Vapour Density:	Not available	Evaporation Rate:	Not available
Decomposition Temp:	Not available	Autoignition Temp:	Not applicable
Relative Density:	1.120	Bulk Density (20°C):	Not available
Partition Coefficient: n-octanol/water	Not available	Viscosity:	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal dry storage conditions.
Reactivity:	May react with water to produce heat and corrosive fumes. Reacts with acids to produce toxic fumes including Sulphur Dioxide. Sulphur Dioxide can react with water to form an acidic solution which may corrode metals and some plastics, rubbers and polymer coatings.
Conditions to Avoid:	Formation of mist/vapour/spray. Uncontrolled formation of sulphur dioxide. Contact with metals.
Incompatibility:	Incompatible with acids, aldehydes, anhydrides, strong oxidisers, copper, aluminium, zinc and their alloys.
Hazardous Decomposition:	Decomposes to form sulphur oxides and metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity:	LD50 oral > 5000 mg/kg. LD50 dermal > 5000 mg/kg LC50 inhalation > 5 mg/L (dust or mist)
Inhalation:	Not expected to cause adverse acute toxic effects under normal conditions of use. However, if use results in formation of sulphur dioxide then inhalation could cause shortness of breath, wheezing and asthma like symptoms.
Ingestion:	Not expected to be harmful under normal conditions of use. Ingestion of large quantities may cause gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.
Skin Contact:	Corrosive to skin.
Eye Contact:	Corrosive to eyes.
Sensitiser:	Product is both a respiratory and contact sensitiser. May cause asthmatic like symptoms and eczema or contact dermatitis.

Chronic Exposure

Mutagen, Carcinogen, or Reproductive Toxicant:	No chronic toxicity effects expected.
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**Specific Target Organ Systemic Toxicity:**

No known toxic or harmful effects on human target organs or systems.

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

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

Product is harmful in the soil environment. Avoid losses of undiluted product to the environment wherever possible.

Persistence/degradability:

No data.

Bio-accumulation:

No data.

Mobility:

Product is soluble in water.

Ecotoxicity data is based on hazardous ingredient information.

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

Recycle and reuse wherever possible. Waste product should be neutralised with dilute acid prior to disposal. 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-TROL 240 is classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.

Hazchem Code: 2R**NZS5433:2012**

UN No: 1719

Proper Shipping Name: Caustic alkali liquid, n.o.s. (contains sodium hydroxide)

Class: 8

Packing Group: II

Environmental hazard: Not applicable

Limited Quantity: 1L

IMDG:

UN No: 1719

Proper Shipping Name: Caustic alkali liquid, n.o.s. (contains sodium hydroxide)

Class: 8

Packing Group: II

Marine Pollutant: No

EmS: F-A, S-B

Limited Quantity: 1L



IATA:	UN No: 1719
	Proper Shipping Name: Caustic alkali liquid, n.o.s. (contains sodium hydroxide)
	Class: 8
	Packing Group: II
	Environmental hazard: Not applicable
	ERG Code: 8L
	Special Provisions: A3, A803
	Cargo Only: Packing Instructions – 855, Maximum Quantity/Pack – 30L
	Passenger and Cargo: Packing Instructions – 851, Maximum Quantity/Pack – 1L
	Passenger and Cargo Limited Quantity: Packing Instructions – Y840, Maximum Quantity/Pack – 0.5L

Ensure transportation methods prevent leakage from packages and collapsing loads.

SECTION 15: REGULATORY INFORMATION

Group Standard Allocation:	Water Treatment Chemicals (Corrosive) Group Standard 2017
HSNO Approval Code:	HSR002681
HSNO Classifications:	6.5A – Respiratory sensitiser 6.5B – Contact sensitiser 8.1A – Corrosive to metals 8.2B – Skin corrosive 8.3A – Eye corrosive 9.2C – Harmful in the soil environment
This substance triggers:	Compliance Certificate – 250L Certified Handler – N/A Emergency Response Plan – 1,000L Secondary Containment – 1,000L Signage – 250L 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.

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: 01/04/2019

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