

Telephone:

BIOTROL 145Oxidising Biocide

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

SECTION 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: BIOTROL 145
Supplier: Visentia Ltd

119 Carbine Road
Mt Wellington
Auckland 1060
New Zealand
+64 9 216 9824

Recommended Use: Water Treatment Chemical
In Case of Emergency Contact: 0800 CHEMCALL (243 622)

SECTION 2: HAZARDS IDENTIFICATION

BIOTROL 145 is classified as a Dangerous Good for Transport.

BIOTROL 145 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: 8.2C – Skin corrosive

8.3A - Corrosive to eyes

9.1B - Ecotoxic in the aquatic environment (chronic)

GHS Classification: Skin corrosion/irritation – Category 1C

Serious eye damage/eye irritation - Category 1

Aquatic toxicity, chronic - Category 2

Hazard Statements: H314 – Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects



GHS Pictograms:



Signal Word: DANGER

Prevention Statements: P260 - Do not breathe mist/vapours/spray.

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

P273 - Avoid release to the environment.

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

Balance

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).

P391 - Collect spillage.

P405 - Store locked up. Storage:

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

CAS Number Concentration **Main Component** 10-15% Sodium hypochlorite 7681-52-9

7732-18-5

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.

Revised by: Simonne Moses Date of Issue: 08/03/2019

Water



SECTION 4: FIRST AID MEASURES

Workplace Facilities Required: Eye wash and safety shower facilities should be provided.

If Inhaled: Remove to fresh air. Lie patient down and keep warm and at rest. Apply artificial

respiration if not breathing. Seek immediate medical attention.

In Contact with Eye: Hold eyes open, flush with water for at least 15 minutes. Seek immediate medical

attention.

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. Substance is alkaline and may continue to cause damage several

hours after exposure.

SECTION 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Product is not flammable or combustible.

Suitable Extinguishing Media: Use water spray or fog, foam, dry chemical powder or carbon dioxide. Remove

containers from path of fire if safe to do so. Cool exposed containers with water spray

from a safe location.

Precautions in Connection with

Fire:

May give off toxic and corrosive fumes in a fire. Fumes may contain hydrogen chloride.

Advice for firefighters: Wear full firefighting gear and self-contained breathing apparatus. Prevent spills from

entering drains and water courses.

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: CAUTION: Slippery when spilt. Stop leak if safe to do so. Contain the spill. Spills may

be neutralised with a suitable 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. Use in a well-

ventilated area. Do not eat, drink or smoke when using this product. Remove

contaminated clothing and wash hands and face before entering eating areas.

Storage: 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. Ensure storage area

has suitable secondary containment.

Site Storage Requirements: Site Signage will be required when quantities exceed 1,000L.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards

NZ:

No Workplace Exposure Standards have been established for this product.

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/vapours/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. A full-face respirator with chlorine cartridges (for

protection against any liberated chlorine gas) is recommended.

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.

Not available



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Description: Liquid **Colour:** Pale, yellow-green

Odour: Chlorine odour Odour Threshold: Not available

pH (25°C): 12.5 Solubility (water, 25°C): Miscible

Melting/Freezing point: Not available Boiling Point: 100°C

Flammability:Non-flammableFlash Point:Not applicableUEL/LEL:Not applicableVapour Pressure (20°C):Not availableDecomposition Temp:Not availableAutoignition Temp:Not available

Partition Coefficient: Not available Viscosity: Not available

Vapour Density:

n-octanol/water

Relative Density:

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal cool, dry storage conditions.

1.24 (water = 1)

Reactivity: Reacts exothermically with acids. May produce toxic gases on contact with acids.

Conditions to Avoid: Excessive heat.

Incompatibility: Incompatible with acids and oxidising agents.

Hazardous Decomposition: Decomposition may result in formation of hydrogen chloride.

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 an expected route of exposure under normal operating conditions. Inhalation of

large volumes of mist/spray may cause irritation to mucous membranes.

Ingestion: Not an expected route of exposure under normal operating conditions. Ingestion

may cause chemical burns to mouth and gastrointestinal tract and may cause

nausea, diarrhoea and vomiting.

Skin Contact: Corrosive to skin. May cause skin burns.

Eye Contact: Corrosive to eyes. May cause corneal damage and permanent injury.

Sensitiser: Not expected to be a respiratory or contact sensitiser.

Chronic Exposure

Mutagen, Carcinogen, or No known effects.

Reproductive Toxicant:

Specific Target Organ Systemic No known effects.

Toxicity:

Toxicity data is based on hazardous ingredient information and information in the EPA

Chemical Classification and Identification Database.



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: $LC/EC_{50} > 1 \text{ but } \le 10 \text{ mg/kg}$

Product is toxic to aquatic life with long lasting effects. Avoid losses to the

environment wherever possible.

Persistence/degradability: No data.

Bio-accumulation: No data.

Mobility: Product is miscible in water.

Ecotoxicity data is based on hazardous ingredient information.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal: Do not allow product to enter drains or waterways. Recycle and reuse wherever

possible. Waste product may be treated with dilute acid prior to disposal so it is no longer hazardous. Dispose of waste product via an approved waste disposal

contractor.

Disposal of Packaging: Packaging may contain product residues and should be treated as hazardous. Where

possible return to supplier for reuse/recycling. Dispose of packaging via an approved

waste disposal contractor.

SECTION 14: TRANSPORT INFORMATION

BIOTROL 145 is classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.

Hazchem Code: 2X

Hazchem Pictograms:



NZS5433:2012: UN No: 1791

Proper Shipping Name: Hypochlorite Solution

Class: 8

Packing Group: III

Environmental hazard: Environmentally hazardous

Limited Quantity: 5L

IMDG: UN No: 1791

Proper Shipping Name: Hypochlorite Solution

Class: 8

Packing Group: III

Marine Pollutant: Yes

EmS: F-A, S-B



Limited Quantity: 5L

IATA: UN No: 1791

Proper Shipping Name: Hypochlorite Solution

Class: 8

Packing Group: III

Environmental hazard: Environmentally hazardous

ERG Code: 8L

Special Provisions: A3, A803

Cargo Only: Packing Instructions - 856, Maximum Quantity/Pack - 60L

Passenger and Cargo: Packing Instructions - 852, Maximum Quantity/Pack - 5L

Passenger and Cargo Limited Quantity: Packing Instructions - Y841, Maximum

Quantity/Pack - 1L

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: 8.2C - Skin corrosive

8.3A - Eye corrosive

9.1B chronic - Ecotoxic in the aquatic environment

This substance triggers: Compliance Certificate – N/A

Certified Handler - N/A

Quantity to be secured when unattended - N/A

Emergency Response Plan – 1,000L Secondary Containment – 1,000L

Signage - 1,000L

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: 08/03/2019

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

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