



## SAFETY DATA SHEET

PRODUCT NAME: POOL-TREAT BLACK STOP

September 18

### IDENTIFICATION

**Product Name:** Pool-Treat Black Stop  
**Other Names:** None  
**Product Code:** PBS1  
**Uses:** To treat black spot algae, mainly in plaster surfaced swimming pools  
**Restrictions:** None

**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton  
Phone: 07 974 4971 Email: [info@hamchem.nz](mailto:info@hamchem.nz) Web: [www.hamchem.nz](http://www.hamchem.nz)

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

### HAZARD IDENTIFICATION



**Signal Word:** DANGER

#### Hazard statements

H226 Flammable liquid and vapour.  
H302 + H332 Harmful if swallowed or if inhaled  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.

#### Precautionary statements

##### Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/face protection.

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**Response**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTRE/Doctor if you feel unwell. Rinse mouth.

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

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

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTRE/Doctor.

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

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage**

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

<b>COMPOSITION &amp; INFORMATION ON INGREDIENTS</b>
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Chemical Entity	CAS No.	Proportion (%)
Dimethyldioctylammonium chloride	5538-94-3	80.00
Ethanol	64-17-5	10.00
Water	7732-18-5	10.00

<b>FIRST AID MEASURES</b>
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**If swallowed:** Do not induce vomiting without medical advice. Immediately give large quantities of water to drink. Call a Doctor/Physician immediately. Never give anything by mouth to an unconscious person.

**If on skin:** After contact with skin, wash immediately with plenty of soap and water. If skin irritation persists, call a Doctor/Physician.

**If inhaled:** Remove person to fresh air. Get medical attention immediately if irritation develops and persists.

**If in eyes:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

<b>FIRE FIGHTING MEASURES</b>
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**Extinguishing media:** Dry powder, Water Spray, Foam

**Specific hazards:** Heating or fire can release toxic gas.

**Protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

**Additional advice:** Use water spray to cool unopened containers.

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ACCIDENTAL RELEASE MEASURES
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**Protective measures:** Use respirator when performing operations involving potential exposure to vapour of the product.

**Clean up methods:** Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.

**Additional advice:** Do not flush into surface water or sanitary sewer system.

HANDLING & STORAGE
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**Procedure for handling:** Provide sufficient air exchange and/or exhaust in work rooms. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

**Store incompatibility:** Keep away from food, drink and food stuffs.

**Storage requirements:** To maintain product quality, do not store in heat or direct sunlight. Keep containers tightly closed in a cool, well-ventilated place. Recommended storage temperature: < 60 °C

EXPOSURE CONTROLS & PERSONAL PROTECTION
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**Exposure standards:**

NZ Workplace Exposure Standards have been set for this substance:

Ethanol                      WES – STEL = 1 mg/m<sup>3</sup>; WES – REL = 1-1.9mg/m<sup>3</sup>;  
WES – PEL = 1-1.9mg/m<sup>3</sup>; WES – TWA = 1-1.9mg/m<sup>3</sup>

Hazardous components without workplace control parameters:  
Dimethyldioctylammonium chloride

**Personal protective equipment:**

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. Hand protection: Material: Nitrile rubber. Rate of permeability: > 480 min. Eye protection: Tightly fitting safety goggles. Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. No special protective equipment required. Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PHYSICAL & CHEMICAL PROPERTIES
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<b>Colour:</b>	Pink liquid
<b>Odour:</b>	Alcohol-like
<b>Odour Threshold:</b>	No data available
<b>pH:</b>	6.5 - 9.0, Concentration: 100 g/l (25 °C)
<b>Melting point/range:</b>	-16.7 °C
<b>Boiling point/boiling range:</b>	No data available
<b>Flash point:</b>	42 °C
<b>Method:</b>	Setaflash Closed Tester (ASTM D3278), closed cup
<b>Evaporation rate:</b>	No data available
<b>Lower explosion limit:</b>	No data available
<b>Vapour pressure:</b>	No data available

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<b>Relative vapour density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Density:</b>	0.90 g/cm <sup>3</sup> (25 °C)
<b>Bulk density:</b>	Not applicable
<b>Water solubility:</b>	Soluble
<b>Partition coefficient:</b>	Noctanol/water: no data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity, dynamic:</b>	< 100 mPa.s (25 °C)
<b>Viscosity, kinematic:</b>	No data available

<b>STABILITY &amp; REACTIVITY</b>
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**Stability:** Stable under normal conditions

**Hazardous decomposition products:** Hydrogen chloride gas; Nitrogen oxides (NO<sub>x</sub>); Carbon oxides

**Hazardous polymerization:** No data available

**Incompatibles:** Strong oxidizing agents, Reducing agents

**Conditions to avoid:** No data available

<b>TOXICOLOGICAL INFORMATION</b>
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**Acute toxicity:** Acute oral toxicity (LD<sub>50</sub>): 375 mg/kg Species: Mouse. Acute inhalation toxicity: 10 mg/l 50% active. Species: Rat. Exposure time: 1 h. Acute dermal toxicity (LD<sub>50</sub>): 259 mg/kg. Species: Rabbit

**Skin corrosion/irritation:** Skin irritation: Corrosive. Species: Rabbit. Method: DOT

**Serious eye damage/eye irritation:** Eye irritation: severe irritant. Species: Rabbit

**IARC:** Human carcinogen. Ethanol 64-17-5

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH:** Confirmed animal carcinogen with unknown relevance to humans. Ethanol 64-17-5

**Further information:** Remarks: The toxicological data has been taken from products of similar composition.

<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity (Aquatic & Terrestrial):**

Toxicity to fish (LC<sub>50</sub>): Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 96 h

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Toxicity to fish (LC50)

Species: *Lepomis macrochirus* (Bluegill sunfish)

Exposure time: 48 h

Toxicity to terrestrial organisms: LD50(*Anas platyrhynchos* (Mallard duck)): 240 mg/kg

End point: Acute toxicity

LC50(*Colinus virginianus* (Bobwhite quail)): 2,625 mg/kg

Exposure time: 8 d

End point: Subacute toxicity

LC50(*Anas platyrhynchos* (Mallard duck)): > 5,000 mg/kg

End point: Subacute toxicity

**Persistence & degradability:** Biodegradability: Remarks: no data available

**Bioaccumulative potential:** Bioaccumulation: Remarks: no data available

**Mobility in soil:** Distribution among environmental compartments: Remarks: no data available

**Other adverse effects:** Results of PBT and vPvB assessment: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential: Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: Information given is based on data on the components and the ecotoxicology of similar products.

**The following ecotoxicological data refer to:**

**Dimethyldioctylammonium chloride**

### **Ecotoxicity**

Toxicity to fish (LC50): 0.35 mg/l

Species: *Oncorhynchus mykiss* (rainbow trout)

Acute toxicity

Exposure time: 96 h

Analytical monitoring: no

Method: US-EPA

GLP: no

Toxicity to fish 0.55 mg/l

Species: *Lepomis macrochirus* (Bluegill sunfish)

Acute toxicity

Exposure time: 48 h

Analytical monitoring: no

Method: US-EPA

GLP: no

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Toxicity to terrestrial organisms: LC50 (Anas platyrhynchos (Mallard duck)): > 2,500ppm  
Exposure time: 8 d  
End point: Subacute toxicity  
GLP: no

LC50 (Colinus virginianus (Bobwhite quail)): 1,300 ppm  
Exposure time: 8 d  
End point: Subacute toxicity  
GLP: no

**Persistence and degradability**

Biodegradability: Test Type: OECD Confirmatory Test  
Concentration: 0.6 mg/l  
Biodegradation: > 89 %  
Exposure time: 10 - 51 d  
Method: OECD Test Guideline 303 A  
GLP: no

**Bio accumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

<b>DISPOSAL CONSIDERATIONS</b>
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**Waste from residues:** Dispose of in accordance with local regulations. Contact waste disposal services.

**Contaminated packaging:** Dispose of as unused product. Do not burn, or use a cutting torch on, the empty drum.

<b>TRANSPORT INFORMATION</b>
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<b>UN Number:</b>	2920
<b>UN Proper Shipping name:</b>	Corrosive liquid, flammable, N.O.S (Dioctyldimethylammoniumchloride, Ethanol)
<b>Dangerous Goods Class:</b>	8 - Corrosive
<b>UN Packing group:</b>	II
<b>Hazchem Code:</b>	3W
<b>Special precautions:</b>	Emergency Response Guidebook Number: 153
<b>Environmental hazards:</b>	no

<b>REGULATORY INFORMATION</b>
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<b>HSNO Approval number:</b>	HSR002529 – Cleaning Products, Flammable, Corrosive Group Standard
<b>HSNO Classifications:</b>	3.1C, 6.1C, 6.1D, 8.2B

<b>OTHER INFORMATION</b>
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**End of SDS.**

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