



# SAFETY DATA SHEET

**PRODUCT NAME:** POOL TREAT pH DOWN

Issue Date: May 22

## IDENTIFICATION

**Product Name:** Pool Treat pH Down  
**Other Names:** Sodium Hydrogen Sulphate, Sodium Acid Sulphate, Sodium Bisulphate.  
**Product Code:** PPD1.5, PPD3.5, PPD25, CSBI25  
**Uses:** Industrial use; used in detergents and as a pH regulator.  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Te Rapa, Hamilton  
Phone: 079744971 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



### GHS Classifications

Skin Corrosion – Category 1C

Serious Eye Damage/Irritation – Category 1

**Signal Word:** DANGER

### Hazard Statements:

H314 – Causes severe skin burns and eye damage

H318 – Causes serious eye damage.

### Precautionary Statements:

P260 – Do not breathe dust or mists

P264 – Wash thoroughly all parts of the body that have come into contact after handling.

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

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.

P363 – Wash contaminated clothing before reuse.

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

P310 – Immediately call a POISON CENTRE/Doctor

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

P405 – Store locked up

P501 – Dispose of contents/container in accordance with local/national regulations.

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HamChem Ltd, 75 Ruffell Rd, Hamilton, New Zealand. Phone 07 974 4971 E-Mail - [info@hamchem.nz](mailto:info@hamchem.nz) Web - [www.hamchem.nz](http://www.hamchem.nz)

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**COMPOSITION & INFORMATION ON INGREDIENTS**

<b>Chemical Entity</b>	<b>CAS No.</b>	<b>Proportion (%)</b>
Sodium Bisulphate	7681-38-1	93-100%

**FIRST AID MEASURES**

**If swallowed:** If swallowed, Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

**If on skin:** Take off all contaminated clothing immediately. Wash off skin and hair with soap and water. If skin irritation persists, call a physician.

**If inhaled:** Move to fresh air. Call a physician immediately.

**If in eyes:** Rinse immediately and thoroughly with plenty of water for at least 15 minutes and consult a physician. Call a physician immediately.

**Advice to Doctor:** Treat symptomatically. Show this safety data sheet to the doctor in attendance.

**FIRE FIGHTING MEASURES**

**General Measures:** Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Flammability Conditions:** Non-flammable.

**Extinguishing Media Suitable:** Use dry chemical, CO<sub>2</sub>, water spray or alcohol resistant foam.

**Unsuitable:** High volume water jet.

**Fire and Explosion Hazard:** The pressure in sealed containers can increase under the influence of heat. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors.

**Hazardous Products of Combustion:** Burning produces noxious and toxic fumes: SO<sub>x</sub>, NaO<sub>x</sub>.

**Special Fire Fighting Instructions:** In the event of fire, cool tanks with water spray.

**Personal Protective Equipment:** Wear self-contained breathing apparatus.

**Flash Point:** No Data Available

**Lower Explosion Limit:** No Data Available

**Upper Explosion Limit:** No Data Available

**Auto Ignition Temperature:** No Data Available

**Hazchem Code:** No Data Available

**ACCIDENTAL RELEASE MEASURES**

**General Response Procedure:** Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin and eyes.

**Clean Up Procedures:** Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

**Containment:** Prevent further leakage or spillage if safe to do so.

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**Decontamination:** No information available.

**Environmental Precautionary Measures:** Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

**Evacuation Criteria:** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Only qualified personnel equipped with suitable protective equipment may intervene.

**Personal Precautionary Measures:** Wear personal protective equipment.

**HANDLING & STORAGE**

**Handling:** Use only in area provided with appropriate exhaust ventilation. Ensure that eye flushing systems and safety showers are located close to the working place. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

**Storage:** Store in dry, cool, well-ventilated area. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep away from open flames, hot surfaces and sources of ignition.

**Container:** Keep in original container as approved by the manufacturer.

**EXPOSURE CONTROLS & PERSONAL PROTECTION**

**General:** No exposure information available for this specific product.  
Safe Work Australia Exposure Standard for Rogue dust (inspirable dust):  
TWA = 10 mg/m<sup>3</sup>

**Exposure Limits:** No Data Available

**Biological Limits:** Environmental compartment: PNEC value

Aqua (freshwater):	11.09 mg/l
Aqua (marine water):	1.11 mg/l
Aqua (intermittent, freshwater):	17.66 mg/l
Sediment (marine water):	4.02 mg/kg dwt
Soil:	1.54 mg/kg dwt
Sewage treatment plant:	800 mg/l

**Engineering Measures:** Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Personal Protection Equipment:** The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**EYE PROTECTION:** Tightly fitting safety goggles.

**HAND PROTECTION:** Rubber gloves; PVC.

**SKIN/BODY PROTECTION:** Chemical-resistant overalls.

**RESPIRATORY PROTECTION:** In case of insufficient ventilation wear suitable respiratory equipment.

Respirator with a full-face mask. Recommended Filter type:

ABEK/P2. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe.

Do not flush into surface water or sanitary sewer system. Comply with applicable Community environmental protection legislation.

**Special Hazards Precautions:** Work Hygienic Practices When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before re-use. Keep working clothes separately.

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### PHYSICAL & CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Crystals / granular
<b>Odour:</b>	None
<b>Colour:</b>	White, light yellow
<b>pH:</b>	1.3
<b>Vapour Pressure:</b>	No Data Available
<b>Relative Vapour Density:</b>	No Data Available
<b>Boiling Point:</b>	No Data Available
<b>Melting Point:</b>	315 °C
<b>Freezing Point:</b>	No Data Available
<b>Solubility:</b>	ca. 1080 g/L 25°C
<b>Specific Gravity:</b>	1.4 kg/L - 1.5 kg/L
<b>Flash Point:</b>	No Data Available
<b>Auto Ignition Temp:</b>	No Data Available
<b>Evaporation Rate:</b>	No Data Available
<b>Bulk Density:</b>	No Data Available
<b>Corrosion Rate:</b>	No Data Available
<b>Decomposition Temperature:</b>	460 °C
<b>Density:</b>	No Data Available
<b>Specific Heat:</b>	No Data Available
<b>Molecular Weight:</b>	No Data Available
<b>Net Propellant Weight:</b>	No Data Available
<b>Octanol Water Coefficient:</b>	-2.2 (KOWWIN)
<b>Particle Size:</b>	No Data Available
<b>Partition Coefficient:</b>	No Data Available
<b>Saturated Vapour Concentration:</b>	No Data Available
<b>Vapour Temperature:</b>	No Data Available
<b>Viscosity:</b>	No Data Available
<b>Volatile Percent:</b>	No Data Available
<b>VOC Volume:</b>	No Data Available
<b>Additional Characteristics:</b>	Watery solution: same properties as H <sub>2</sub> SO <sub>4</sub> . Fine granules, crystals or powder. Fine substance that can cause the irritation of the airways, with coughing and the contraction of the airways. In contact with water the product forms sulphuric acid that can cause burns.
<b>Potential for Dust Explosion:</b>	No information available.
<b>Fast or Intensely Burning Characteristics:</b>	No information available.
<b>Flame Propagation or Burning Rate of Solid Materials:</b>	No information available.
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire:</b>	No information available.
<b>Properties That May Initiate or Contribute to Fire Intensity:</b>	No information available.
<b>Reactions That Release Gases or Vapours:</b>	Acidic aqueous solution. Gives off hydrogen by reaction with metals.
<b>Release of Invisible Flammable Vapours and Gases:</b>	Vapours may form explosive mixture with air.

### STABILITY & REACTIVITY

**Chemical Stability:** Hygroscopic.

**Conditions to Avoid:** Avoid dust formation. Avoid moisture, heat. Keep away from open flames, hot surfaces and sources of ignition.

**Materials to Avoid:** Avoid moisture absorption and contamination.

**Hazardous Decomposition Products:** Gives off hydrogen by reaction with metals (acidic aqueous solution). Vapours may form explosive mixture with air.

**Hazardous Polymerisation:** No information available.

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### TOXICOLOGICAL INFORMATION

**General Information:**

Inhalation: May cause irritation of respiratory tract. Inhalation may provoke the following symptoms: Shortness of breath, cough, dry/sore throat. Skin contact: May be irritating. Skin contact may provoke the following symptoms: Redness, pain, blisters. Eye contact: Causes serious eye damage. Eye contact may provoke the following symptoms: Redness, pain. Ingestion: Ingestion may cause irritation to mucous membranes. Ingestion may provoke the following symptoms: Abdominal pain, burning sensation.

**Acute:**

Ingestion Acute Oral Toxicity - Rat LD50: 2,140 mg/kg sulfuric acid  
Inhalation Acute Inhalation Toxicity - Rat (4 h) LC50 >2,400 mg/m<sup>3</sup> Sodium sulphate  
Skin Irritant Not classified (Not classified due to data which are conclusive although insufficient for classification.)  
Eye Irritant Causes serious eye damage.

**Carcinogen Category:** None

### ECOLOGICAL INFORMATION

**Ecotoxicity:** Component: Sodium hydrogen sulphate (7681-38-1): Toxic to aquatic organisms.  
LC50/96h/fish: 7960 mg/l  
EC50/48h/daphnia: 1766 mg/l  
LC50/72h/algae: 1900 mg/l

**Persistence/Degradability:** Hydrolysis in water.

**Mobility:** Highly mobile in soils.

**Environmental Fate:** Results of PBT and vPvB assessment: Not required (inorganic).

**Bioaccumulation Potential:** Low potential.  
Partition coefficient: n-octanol/water: -2,2 (KOWWIN)

**Environmental Impact:** No Data Available

### DISPOSAL CONSIDERATIONS

**General Information:** Dispose of contents/container in accordance with all local, state and federal regulations.

**Special Precautions for Land Fill:** Collect and dispose of waste product at an authorised disposal facility. Prevent product from entering drains.

### TRANSPORT INFORMATION

Not classified as Dangerous Good for Transport as per NZS5433:2012 Transport of Dangerous Goods on Land.

### REGULATORY INFORMATION

**EPA Approval Number:** HSR002491

### OTHER INFORMATION

**End of SDS.**

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