

CYCO pH Down

Material Safety Data Sheet

MSDS DATE: 31/07/15

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cyco Platinum Series pH Down

SYNONYMS: Cyco Platinum Series pH Down 250ml, Cyco Platinum Series pH Down 500ml, Cyco Platinum Series pH Down 1L , Cyco Platinum Series pH Down 5L

PRODUCT CODES: 011

MANUFACTURER: SJ ENTERPRISES PTY LTD

DIVISION: N/A

ADDRESS: 7 O'CONNOR COURT, GEPPS CROSS, 5094, SOUTH AUSTRALIA

EMERGENCY PHONE: +61 8 8359 8732

CHEMTREC PHONE: N/A

OTHER CALLS: +61 0 430 217 040

FAX PHONE: +61 8 8 359 8732

CHEMICAL NAME: PHOSPHORIC ACID

CHEMICAL FAMILY: ACID

FORMULA: N/A

PRODUCT USE: Hydroponic Chemical **PREPARED BY:**

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT: Phosphoric Acid

<u>CAS NO.</u>	<u>% WT</u>
7664-38-2	0.35%(w/v)
7732-18-5	65% w/w

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SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Causes eye, skin, digestive and respiratory tract burns. Corrosive to metal and hygroscopic. May be harmful if swallowed. If ingested, do not induce vomiting. For eyes get medical assistance.

Appearance: Clear, Colourless liquid **Odour:** Odourless **Target Organs:** mucous membrane, eyes, skin

Potential Health Effects/ Routes of Exposure:

Eyes: May cause severe irritation, redness, pain and burns.

Skin: May cause irritation, redness and burns.

Ingestion: May cause burning of the mouth, stomach, and throat, abdominal pain, vomiting, nausea, gastrointestinal upset.

Inhalation: May cause a range from mild irritation to severe damage of the upper respiratory tract, depending on exposure.

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA).

Aggravated Medical Conditions: No information available.

These chemicals are considered hazardous by OSHA

See **section 11** for toxicological information. See **section 12** for potential environmental effects

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

INGESTION: DO NOT induce vomiting unless directed to do so by medical personnel. Dilute with water or milk. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Refer to MSDS

SECTION 5: FIRE FIGHTING MEASURES

Fire & Explosion Hazards: Contact with metal may form flammable hydrogen gas.

Fire Fighting Instructions / Equipment: Use normal procedures. Poisonous gas may be produced in a fire. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information available.

Sensitivity to Mechanical Impact: No information available.

Sensitivity to Static Discharge: No information available.

Specific Hazards Arising from the Chemical: No information available.

NFPA Rating: (estimated) Health: 2; Flammable: 0; Reactivity: 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Phosphoric Acid, CAS# 7664-38-2, ACGIH TLV: 1 mg/m³, OSHA PEL: 1 mg/m³
Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

ENGINEERING CONTROLS: Normal ventilation is adequate. Ensure eyewash and safety showers are available.

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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

EYE PROTECTION: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

SKIN PROTECTION: Wear protective gloves and clean body-covering clothing.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Please refer to State and Federal regulations

EXPOSURE GUIDELINES: No exposure guidelines have been set for this product.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Clear, colourless liquid

Odour: Odourless

Boiling Point: Approx. 100° C

Melting Point: Approx. 0° C

Vapour Density: >1

Evaporation Rate: No information available

pH: Alkaline

Flammability: No information available

Solubility: Infinite

Relative Density: No information available

% Volatility: No information available

Specific Gravity: Approx. 1

Vapour Pressure: No information available

Flash Point: Not applicable

Coefficient of water/oil distribution: Not available

Odour Threshold: Not available

Decomposition Temperature: No information available

Partition Coefficient n-octanol/water: No data available

Molecular Weight: Not available

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under ordinary conditions of use and storage

CONDITIONS TO AVOID (STABILITY): No Information available

INCOMPATIBILITY (MATERIAL TO AVOID): Metals such as aluminium, tin, zinc, chlorinated hydrocarbons, strong bases, amines, alcohols, aldehydes.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of phosphorus, reactions with certain metals may release flammable and explosive hydrogen gases.

HAZARDOUS POLYMERIZATION: Does not occur

CONDITIONS TO AVOID (POLYMERIZATION): Not Available

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SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure/Symptoms/Corrosiveness – See Section 3

LD50 orl-rat: 1530 mg/m3 (Phosphoric Acid) LC50 inhalation-rat: NA

Irritation: No information available.

Toxicologically Synergistic: No Information available.

Chronic Exposure

Carcinogenicity: No information available.

Sensitization: No information available.

Mutagenic Effects: No information available.

Reproductive Effects: No information available.

Developmental Effects (Immediate/Delayed): No information available.

Teratogenicity: No information available.

Other Adverse Effects: No information available.

Endocrine Disruptor Information: No information available.

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SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Ecotoxicity: Not Available

Persistence and Degradability: No information available.

Mobility: No information available.

Bioaccumulation/ Accumulation: No information available.

Environmental Fate: No Data found

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES: Do not use this container for any other purpose. Triple rinse containers, then offer the container for recycling, reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with your local government regulations.

SECTION 14: TRANSPORT INFORMATION

DOT - UN1805, Phosphoric Acid Solution, 8, III

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SECTION 15: REGULATORY INFORMATION

OSHA Status: These chemicals are considered hazardous by OSHA.

Canada DSL: These chemicals are listed on Canada's DSL list.

TSCA: The components of this solution are listed on the TSCA Inventory.

SARA Title III Section 313: Not Applicable.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Not Applicable.

WHMIS: Not Applicable.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

SECTION 16: ADDITIONAL INFORMATION

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