

# CYCO pH DOWN

## CYCO PLATINUM SERIES SAFETY DATA SHEET

CYCOFLOWER.COM

SDS DATE 27/01/2017

### SECTION 01: IDENTIFICATION, PRODUCT & CHEMICAL IDENTIFIER

**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:** Australia  
**ADDRESS:** 7 O'Conner Court, Gepps Cross, South Australia, 5094 Australia  
**EMERGENCY PHONE:** +61 8 8359 8732  
**CHEMTREC PHONE:** N/A  
**OTHER CALLS:** +61 0430 217 040  
**FAX PHONE:** +61 8 83598732  
**CHEMICAL NAME:** Phosphoric acid  
**CHEMICAL FAMILY:** Acid  
**CHEMICAL FORMULA:** H<sup>3</sup>PO<sup>4</sup>  
**PRODUCT USE:** Hydroponic Chemical - Adjust pH level in nutrient water  
**PREPARED BY:** SJ ENTERPRISES PTY LTD Material Safety Data Sheet

### SECTION 02: HAZARD(S) IDENTIFICATION

**Physical state:** Liquid.  
**Color:** Colorless.  
**Odor:** Odorless.  
**Hazard status:** This material is classified as hazardous under OSHA regulations.

**Emergency overview**

**DANGER! CAUSES SEVERE RESPIRATORY TRACT, EYE AND SKIN BURNS. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: LUNGS, MUCOUS MEMBRANES, RESPIRATORY TRACT, SKIN, ENDOTHELIUM, EYE, LENS OR CORNEA, TEETH.**

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Wash thoroughly after handling.

Dermal contact. Eye contact. Inhalation. Ingestion.

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### SECTION 02: HAZARD(S) IDENTIFICATION (CONT)

#### Routes of entry:

#### Potential acute health effects

Severely Corrosive to eyes.  
Severely Corrosive to the skin.  
Severely corrosive to the respiratory system.  
May cause burns to mouth, throat and stomach..

#### Eyes:

#### Skin:

#### Inhalation:

#### Ingestion:

Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available.  
Teratogenic effects: Not available.

#### Potential chronic health effects:

#### Medical conditions aggravated by over exposure:

Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organ damage.

#### See toxicological information (section II)

### SECTION 03: COMPOSITION & INFORMATION ON INGREDIENTS

| Name            | CAS Number | % WT |
|-----------------|------------|------|
| Phosphoric acid | 7664-38-2  | 47%  |

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### SECTION 04: USE INSTRUCTIONS

**Eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention immediately.

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

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Notes to physician:** No specific antidote. Medical staff must contact Poison Control Center.

### SECTION 05: FIRE FIGHTING PROCEDURES

**Flammability of the product:** Non-flammable.

#### Extinguishing Media

**Suitable:** Use an extinguishing agent suitable for the surrounding fire.

**Not suitable:** None known.

**Special exposure hazards:** No specific hazard.

**Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### SECTION 06: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

**Environmental precautions:** Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

**Not suitable:** If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

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### SECTION 07: HANDLING AND STORAGE

**Eye contact:** Do not get in eyes or on skin or clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

The shelf life of Cyco liquid products will depend on storing them correctly, stored in a cool, dark location the unopened product has a shelf life of approx. 2 years, once the seal is broken the product has a shelf life of approx. 3 months. Always replace the cap as soon as possible after pouring to extend the life of the product. Do not store for long periods above 40°C or below – 10°C

**Product name:** Potassium hydroxide

**Exposure limits:**

**ACGIH TLV (United States, 9/2004).**

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: All forms.

STEL: 4 ppm 15 minute(s). Form: All forms.

TWA: 5.2 mg/m<sup>3</sup> 8 hour(s). Form: All forms.

TWA: 2 ppm 8 hour(s). Form: All forms.

**NIOSH REL (United States, 12/2001).**

TWA: 5

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: All forms.

STEL: 4 ppm 15 minute(s). Form: All forms.

mg/m<sup>3</sup> 10 hour(s). Form: All forms.

TWA: 2 ppm 10 hour(s). Form: All forms.

**OSHA PEL (United States, 8/1997).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: All forms.

**Engineering measures:**

Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits

**Eyes:** Face shield.

**Personal Protection:**

**Skin:** Synthetic apron. Boots.

**Respiratory:** Vapor respirator.

**Hands:** Nitrile gloves.

**Personal Protection in case of a large spill:**

Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

**Hygiene measures:**

Wash hands, forearms and face thoroughly after handling compounds and before eating,

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### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

|                                    |   |
|------------------------------------|---|
| <b>Physical state:</b>             | Liquid.   |
| <b>Color:</b>                      | Colorless.  |
| <b>Odor:</b>                       | Odorless.   |
| <b>pH:</b>                         | 0 to 5 [Acidic.]  |
| <b>Boiling/condensation point:</b> | The lowest known value is 83.89°C (183°F) (Phosphoric acid).<br>Weighted average: 98.39°C |
| <b>Melting/freezing point:</b>     | (24.6°F)  |
| <b>Relative density:</b>           | Weighted average: 1.03 (Water = 1)  |
| <b>Vapor pressure:</b>             | The highest known value is 6.5 to 7.3 kPa (49 to 55 mm Hg) (at 20°C) (Phosphoric acid).   |
| <b>Vapor density:</b>              | The highest known value is 0.62 (Air = 1) (Water).0.36 (Water)                            |
| <b>Evaporation rate:</b>           | compared with Butyl acetate.  |
| <b>Solubility:</b>                 | Highly soluble in water.  |

### SECTION 10: STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability and reactivity</b>                | The product is stable.                                 |
| <b>Incompatibility with various substances</b> | Reactive with oxidizing materials, metals and alkalis. |
| <b>Hazardous polymerization</b>                | Will not occur.  |
| <b>Conditions of reactivity</b>                | None known   |

### SECTION 11: TOXICOLOGY INFORMATION

|  |   |
|--|---|
| <b>Acute Effects</b>                     |   |
| <b>Eyes:</b>                             | Severely Corrosive to eyes.   |
| <b>Skin:</b>                             | Severely Corrosive to the skin.   |
| <b>Inhalation:</b>                       | Severely corrosive to the respiratory system.   |
| <b>Ingestion:</b>                        | May cause burns to mouth, throat and stomach.   |
| <b>Potential chronic health effects:</b> | Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.<br>Mutagenic effects: Not available.<br>Teratogenic effects: Not available.    |
| <b>Target organs:</b>                    | Contains material which causes damage to the following organs: lungs, mucous membranes, upper respiratory tract, skin, endothelium, eye, lens or cornea, teeth. |

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### SECTION 12: ECOLOGY INFORMATION

|  |   |
|--|---|
| <b>Environmental precautions:</b>                  | No known significant effects or critical hazards.                   |
| <b>Products of degradation:</b>                    | These products are nitrogen oxides.                                 |
| <b>Toxicity of the products of biodegradation:</b> | The products of degradation are less toxic than the product itself. |

### SECTION 13: DISPOSAL CONSIDERATIONS

|                        |   |
|------------------------|---|
| <b>Waste disposal:</b> | The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements. |
|------------------------|---|

### SECTION 14: TRANSPORT INFORMATION

|   |                   |   |                             |
|---|-------------------|---|-----------------------------|
| <b>Regulatory information:</b>          |                   |   |                             |
| <b>UN / IMDG / IATA Classification:</b> | <b>Class</b><br>8 | <b>Proper shipping name:</b><br>Phosphoric acid acid, solution. | <b>UN number:</b><br>UN1805 |
| <b>DOT Classification:</b>              | 8                 | Phosphoric acid acid, solution.                                 | UN1805                      |

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### SECTION 15: REGULATORY INFORMATION

#### HCS Classification:

Corrosive material  
Target organ effects

#### U.S. Federal regulations:

SARA 302/304/311/312 extremely hazardous substances: Phosphoric acid  
SARA 302/304 emergency planning and notification: Phosphoric acid  
SARA 302/304/311/312 hazardous chemicals: Phosphoric acid  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Phosphoric acid:  
Fire hazard, reactive, Immediate (acute) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: Phosphoric acid  
Clean Air Act (CAA) 112 accidental release prevention: Phosphoric acid  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: Phosphoric acid

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### State regulations:

Pennsylvania RTK: Phosphoric acid: (environmental hazard, generic environmental hazard)  
Massachusetts RTK: Phosphoric acid  
New Jersey: Phosphoric acid  
California prop. 65: No products were found.

#### International lists:

This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

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### SECTION 16: ANY OTHER RELEVANT INFORMATION

#### NOTICE TO READER

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PLATINUM SERIES



Pty Ltd

**SJ ENTERPRISES**

PLATINUM SERIES



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