

Material Safety Data Sheet

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Issue date: May 2008

Hazardous according to criteria of Worksafe Australia

PHOS - 5

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Brisbane Total Cleaning Supplies

ABN 30 239 269 224

Unit 9, 29 Moreton Bay Road

CAPALABA QLD 4157

Phone: +61 7 3823 1822

Fax: +61 7 3823 1949

Email: sales@btcs.com.au

Emergency: 0428 835 955

| | |
|--|---------------------------|
| Product Name: | PHOS - 5 |
| Synonyms: | ACID BASED TOILET CLEANER |
| Manufacturer's Product Code(s): | PHOS5 |
| Use: | TOILET AND URINAL CLEANER |
| UN Number: | 1805 |
| Proper Shipping Name: | CORROSIVE LIQUID N.O.S. |
| Dangerous Goods Class: | 8 |
| Subsidiary risk: | None allocated |
| Packing Group: | 111 |
| Hazchem Code: | 2R |

2. COMPOSITION / INFORMATION ON INGREDIENTS

| SUBSTANCE NAME | Proportion | CAS Number |
|---|------------|------------|
| PHOSPHORIC ACID 81 % [ORTHOPHOSPHORIC ACID] | 10 to 30% | 7664-38-2 |
| OTHER INGREDIENTS BELOW CUT OFF POINT INCLUDING WATER = BALANCE | | |

3. HAZARD IDENTIFICATION

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Hazard Category: Irritant

ACUTE HEALTH EFFECTS

Swallowed: May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach.

Eye: Will cause irritation to the eyes, with effects including tearing, pain, stinging and blurred vision. Depending upon duration of exposure, eye damage may occur.

Skin: Will cause irritation to the skin, with effects including redness, itchiness, and possible dermatitis.

Inhaled: May cause irritation to the nose, throat and respiratory system with effects including dizziness, headache and possible confusion.

Chronic: Prolonged or repeated skin contact may lead to dermatitis. This product may cause severe eye irritation and depending upon duration of exposure, some form of permanent eye damage may occur.

4. FIRST AID MEASURES

Swallowed: If swallowed, **DO NOT** induce vomiting. Seek urgent medical assistance.

Eye: If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open. Immediately transport to hospital or doctor.

Skin: If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available.

Inhaled: Remove victim to fresh air. Apply resuscitation if victim is not breathing - **DO NOT USE DIRECT MOUTH - TO - MOUTH METHOD** if victim ingested or inhaled substance; use alternative respiratory method or proper respiratory device -

First Aid Facilities: Eye wash fountain, safety shower and normal washroom facilities.

Advice to Doctor: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard:

CAUTION: Use of water spray when fighting fire may be inefficient.

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to cool fire-exposed surfaces and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If tanks, drums or containers of this material are heated, they may rupture and project corrosive liquids over a wide area.

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Flammability: Not flammable or combustible. If involved in a fire may generate noxious and corrosive fumes.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION: Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Isolate for 800 m in all directions if tank, rail car or tanker truck is involved in fire.

SPILL OR LEAK PROCEDURE: Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces.

SMALL SPILLS: Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal.

LARGE SPILLS: Notify Emergency Services (Police or Fire Brigade). Tell them location, nature and any information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

7. HANDLING AND STORAGE

Many of these substances are reactive with water and may cause noxious and toxic fumes to be generated. Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids, combustibles and oxidising agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

PHOSPHORIC ACID 81%

(Worksafe Australia) [TWA] 1 mg/m³ [STEL] 3 mg/m³ notices: H
(ACGIH) [TWA] 1 mg/m³ [STEL] 3 mg/m³

Engineering Controls

Corrosive liquid. Single significant exposure may cause severe injury. Maintain adequate ventilation at all times. Prevent accumulation of gas in hollows or sumps. Eliminate any sources of ignition.

Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.

Personal Protection Equipment

CLOTHING: PVC, Nitrile, Neoprene, Natural rubber or any other type of apron or splash suit as recommended by the manufacturer.

GLOVES: PVC, Nitrile, Neoprene, Natural rubber or any other type of glove as recommended by the manufacturer.

EYES: Chemical goggles or faceshield to protect eyes.

RESPIRATORY PROTECTION:

Avoid breathing of gases. Select and use respirators in accordance with AS/NZS 1715/1716. When the concentration of airborne contaminants reach the exposure standards then the use of a half-face respirator with acid vapour cartridge is recommended. For high concentration use an atmosphere-supplied, positive pressure demand self-contained or airline-breathing apparatus supplied air respirator complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels.

If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended. The use of fully encapsulating, gas-tight suits are also recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------------|--|
| Appearance: | LOW VISCOSITY BLUE FLUID WITH A SWEET FLORAL PERFUME |
| Boiling Point Melting Point: | 100 oC |
| Vapour Pressure: | N/A |
| Specific Gravity: | 1.15 |
| Flash Point: | NON-FLAMMABLE |
| Flammability Limits: | NON-FLAMMABLE |
| Solubility in Water: | COMPLETE |

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits choking and corrosive fumes when heated to decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Strong alkalis and oxidizing agents.

CONDITIONS TO AVOID: Heat, flames, ignition sources and incompatibles.

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11. TOXICOLOGICAL INFORMATION

RISK PHRASES

R36/38 Irritating to eyes and skin.

SAFETY PHRASES

S1/2 Keep out of reach of children.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S28 After contact with skin, wash immediately with plenty of soap and water.

S45 In case of accident or if you feel unwell contact a doctor or Poisons Information Centre immediately and show this container or label.

12. ECOLOGICAL INFORMATION

None allocated

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste 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.

14. TRANSPORT INFORMATION

UN Number: 1805
Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, N.O.S.
Dangerous Goods Class: 8
Subsidiary risk: None allocated
Packing Group: III
Hazchem Code: 2R

Classified as a CLASS 8 (CORROSIVE) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, 6th Edition.

Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1
- Class 4.3
- Class 5
- Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7

and are incompatible with food and food packaging in any quantity.

Emergency information (Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76: 1997)

For TOXIC AND/OR CORROSIVE Guide No: 37

15. REGULATORY INFORMATION

Poison Schedule: None allocated

16. OTHER INFORMATION

CONTACT DETAILS

Sales Department +61 7 3823 1822
Fax +61 7 3823 1949
Mobile 0428 835 955
Emergency 0428 835 955

DISCLAIMER

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In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 13 11 26

In New Zealand Tel: 034 747 000