Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
CHEMTECH BLITZ

PROPER SHIPPING NAME
PHOSPHORIC ACID, SOLUTION

PRODUCT USE
Aluminium cleaner.

SUPPLIER
Company: ITW AAMTech
Address:
100 Hassall Street
Wetherill Park
NSW, 2164
Australia
Telephone: +61 2 9828 0900
Emergency Tel: +6000 039 008 (24 hours)
Emergency Tel: +61 3 9573 3112 (24 hours)
Fax: +61 2 9725 4698

Company: Wynn’s New Zealand
Address:
Unit 2, 38 Trugood Drive
East Tamaki
Auckland, 2013
New Zealand
Telephone: +64 9272 1940
Emergency Tel: +800 2436 2255 (24 hours)
Emergency Tel: +613 9573 3112 (24hours)
Fax: +64 9272 1949

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE
HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

RISK
Risk Codes Risk Phrases
R22 • Harmful if swallowed.
R34 • Causes burns.
R41 • Risk of serious damage to eyes.
R53 • May cause long-term adverse effects in the aquatic environment.

SAFETY
Safety Codes Safety Phrases
S01 • Keep locked up.
S23 • Do not breathe gas/fumes/vapour/spray.
S25 • Avoid contact with eyes.
S36 • Wear suitable protective clothing.
S40 • To clean the floor and all objects contaminated by this material, use water.
S27 • Take off immediately all contaminated clothing.
S45 • In case of accident or if you feel unwell IMMEDIATELY contact Doctor or Poisons Information Centre (show label if possible).
S60 • This material and its container must be disposed of as hazardous waste.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME CAS RN %
phosphoric acid 7664-38-2 30-60
surfactants 6-10
other non-hazardous ingredients 0-1
water 7732-18-5 >30

continued...
Section 4 - FIRST AID MEASURES

SWALLOWED
• For advice, contact a Poisons Information Centre or a doctor at once.
• Urgent hospital treatment is likely to be needed.
• If swallowed do NOT induce vomiting.
• If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

EYE
■ If this product comes in contact with the eyes:
• Immediately hold eyelids apart and flush the eye continuously with running water.
• Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
• Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
• Transport to hospital or doctor without delay.

SKIN
■ If skin or hair contact occurs:
• Immediately flush body and clothes with large amounts of water, using safety shower if available.
• Quickly remove all contaminated clothing, including footwear.
• Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
• Transport to hospital, or doctor.

INHALED
• If fumes or combustion products are inhaled remove from contaminated area.
• Lay patient down. Keep warm and rested.
• Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
• Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

NOTES TO PHYSICIAN
■ Treat symptomatically.
For acute or short term repeated exposures to strong acids:
• Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
• Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
• Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.
• Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
• Water spray or fog.
• Foam.
• Dry chemical powder.
• BCF (where regulations permit).

FIRE FIGHTING
• Alert Fire Brigade and tell them location and nature of hazard.
• Wear full body protective clothing with breathing apparatus.
• Prevent, by any means available, spillage from entering drains or water course.
• Use fire fighting procedures suitable for surrounding area.
When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 800 metres in all directions.

FIRE/EXPLOSION HAZARD
• Non combustible.
• Not considered to be a significant fire risk.
• Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.
• Heating may cause expansion or decomposition leading to violent rupture of containers.
Decomposition may produce toxic fumes of: carbon dioxide (CO2), phosphorus oxides (POx), other pyrolysis products typical of burning organic material.

FIRE INCOMPATIBILITY
■ None known.

continued...
Section 5 - FIRE FIGHTING MEASURES

HAZCHEM

2R

Personal Protective Equipment
Breathing apparatus.
Chemical splash suit.

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.

MAJOR SPILLS
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING
- DO NOT allow clothing wet with material to stay in contact with skin.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material.

SUITABLE CONTAINER
- DO NOT use aluminium or galvanised containers.
- Check regularly for spills and leaks.
- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polyliner drum.
- Packing as recommended by manufacturer.

STORAGE INCOMPATIBILITY
- Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.
- Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

STORAGE REQUIREMENTS
- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

<table>
<thead>
<tr>
<th>Source</th>
<th>Material</th>
<th>TWA mg/m³</th>
<th>STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia Exposure Standards</td>
<td>phosphoric acid (Phosphoric acid)</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

The following materials had no OELs on our records
- water: CAS:7732-18-5
PERSONAL PROTECTION

RESPIRATOR
Type B-P Filter of sufficient capacity

EYE
• Chemical goggles.
• Full face shield may be required for supplementary but never for primary protection of eyes.
• Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET
• Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:
  • frequency and duration of contact,
  • chemical resistance of glove material,
  • glove thickness and
  • dexterity.
• Wear chemical protective gloves, eg. PVC.
• Wear safety footwear or safety gumboots, eg. Rubber.
• When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

OTHER
• Overalls.
• PVC Apron.
• PVC protective suit may be required if exposure severe.
• Eyewash unit.

ENGINEERING CONTROLS
• Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Slightly opaque, pink, acidic pourable gel; mixes with water.

PHYSICAL PROPERTIES
Liquid.
Mixes with water.
Corrosive.
Acid.
Toxic or noxious vapours/gas.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Melting Range (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Range (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition Temp (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Autoignition Temp (°C)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper Explosive Limit (%)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Volatile Component (%vol)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Available</td>
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<tr>
<td>Solubility in water (g/L)</td>
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</tr>
<tr>
<td>pH (1% solution)</td>
<td>2</td>
</tr>
<tr>
<td>pH (as supplied)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapour Pressure (kPa)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>1.223 @ 20°C</td>
</tr>
<tr>
<td>Relative Vapour Density (air=1)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Section 10 - STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY
• Presence of incompatible materials.
• Product is considered stable.
• Hazardous polymerisation will not occur.
For incompatible materials - refer to Section 7 - Handling and Storage.
Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS
- Harmful if swallowed.
- Causes burns.
- Risk of serious damage to eyes.

CHRONIC HEALTH EFFECTS
- Generally not applicable.

TOXICITY AND IRRITATION

CHEMTECH BLITZ:
- Not available. Refer to individual constituents.

PHOSPHORIC ACID:
- unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

TOXICITY

Unreported (human) LDLo: 220 mg/kg
Oral (rat) LD50: 1530 mg/kg
Oral (rat) LD50: 3500 mg/kg* [Monsanto]*
Dermal (rabbit) LD50: >1260 mg/kg*
Inhalation (Rat) LC50: 25.5 mg/m³/4h
Inhalation (Mouse) LC50: 25.5 mg/m³/4h

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.

phosphoric acid (85%)

WATER:
- No significant acute toxicological data identified in literature search.

Section 12 - ECOLOGICAL INFORMATION

May cause long-term adverse effects in the aquatic environment.

This material and its container must be disposed of as hazardous waste.

Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence: Water/Soil</th>
<th>Persistence: Air</th>
<th>Bioaccumulation</th>
<th>Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>phosphoric acid</td>
<td>HIGH</td>
<td>LOW</td>
<td>HIGH</td>
<td>HIGH</td>
</tr>
</tbody>
</table>

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.
- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.
- Otherwise:
  - If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
  - Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

continued...
Section 14 - TRANSPORTATION INFORMATION

Labels Required: CORROSIVE

HAZCHEM:
2R (ADG7)

ADG7:
Class or Division: 8
UN No.: 1805
Special Provision: 223
Portable Tanks & Bulk Containers - None
Packagings & IBCs - None
Packaging Instruction: Provision:
Name and Description: PHOSPHORIC ACID, SOLUTION

Land Transport UNDG:
Class or division: 8
UN No.: 1805
Shipping Name: PHOSPHORIC ACID, SOLUTION

Air Transport IATA:
ICAO/IATA Class: 8
UN/ID Number: 1805
Special provisions: A3
Shipping Name: PHOSPHORIC ACID, SOLUTION 304578

Maritime Transport IMDG:
IMDG Class: 8
UN Number: 1805
EMS Number: F-A, S-B
Limited Quantities: 5 L
Shipping Name: PHOSPHORIC ACID SOLUTION

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE S6

REGULATIONS

Regulations for ingredients

phosphoric acid (CAS: 7664-38-2, 16271-20-8) is found on the following regulatory lists;
*Australia Exposure Standards*; *Australia Hazardous Substances*; *Australia High Volume Industrial Chemical List (HVICL)*; *Australia Inventory of Chemical Substances (AICS)*; *Australia National Pollutant Inventory*; *Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)*; *Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)*; *Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5*; *Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6*; *GESAMP/EHS Composite List - GESAMP Hazard Profiles*; *IMO IBC Code Chapter 17: Summary of minimum requirements*; *IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk*; *International Council of Chemical Associations (ICCA) - High Production Volume List*; *OECD Representative List of High Production Volume (HPV) Chemicals*;

water (CAS: 7732-18-5) is found on the following regulatory lists;
*Australia Inventory of Chemical Substances (AICS)*; *IMO IBC Code Chapter 18: List of products to which the Code does not apply*; *International Fragrance Association (IFRA) Survey: Transparency List*; *OECD Representative List of High Production Volume (HPV) Chemicals*;

No data for Chemtech Blitz (CW: 8529-82)
Section 16 - OTHER INFORMATION

INGREDIENTS WITH MULTIPLE CAS NUMBERS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>phosphoric acid</td>
<td>7664-38-2, 16271-20-8</td>
</tr>
</tbody>
</table>

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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Issue Date: 15-Apr-2010
Print Date: 11-Mar-2011

This is the end of the MSDS.