

# Material Safety Data Sheet: MSDS

4 pages

ISSUE Date AUGUST 2009

Product Name: **TIG CHAMP DC Plus Brush Weld Cleaning Solution**

Classified as hazardous according to NOHSC (AUS) and Hazardous Substance Regulation (NZ)

For use only with **TIG CHAMP BRUSH DC Plus WELD CLEANING** machine from  
**Independent Wholesale Welding Supply Pty Ltd**

## IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name** TIG CHAMP BRUSH EX50 WELD CLEANING SOLUTION

**Company Name** Independent Wholesale Welding Supply Pty Ltd (I.W.W.S)

**Address** Unit 2 ,170 Power Street Glendenning NSW 2761

**Telephone Number** Tel: 61 2 8834 2400

I.W.W.S does not warrant that this product is suitable for any other use or purpose than with TIG CHAMP BRUSH DC Plus WELD CLEANING machine. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon I.W.W.S with respect to any skill or judgment or advice in relation to the suitability of this product of any other purpose is disclaimed.

**Recommended Use:** Cleaning stainless steel welds and other metals

## HAZARD IDENTIFICATION

**Product Name:** TIG CHAMP BRUSH EX50 Weld Cleaning Solution

Classified as hazardous according to criteria of NOHSC and Hazardous Substance Regulations 2001 NZ

Classified as Dangerous Goods for transport according to ADG code and NZS:5433:1999

**Proper Shipping Name**

PHOSPHORIC ACID+ WATER + CITRIC ACID

**Other Names**

PHOSPHORIC ACID <50% WATER < 55% CITRIC ACID <3%

**UN Number** 1805

**DG Class** 8

**Packing Group** III

**Hazchem Code** 2R

**Poisons Schedule** S6

**Acid Use** Fertilizer; manufacturer of phosphate fertilizers and salts, polyphosphates, detergents, pharmaceutical chemicals, activated carbon, animal feed, ceramics, food additive, food processing, rust inhibitors, wax and rubber latex; also used in electro polishing, engraving and photoengraving, printing, metal cleaning, sugar refining and water treatment and laboratory reagent.



## COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization:** Liquid

## HEALTH HAZARD INFORMATION

### Health Effects

**Acute - Swallowed** Burns to the mouth and throat, pain in the stomach, difficulty in breathing, nausea, vomiting, diarrhea, and convulsions; in severe cases, collapse and death.

**Acute - Eye** Mists may cause eye irritation. When splashed in the eyes, concentrated solutions can cause burns and permanent eye damage.

**Acute - Skin** Concentrated acid solutions can cause burns.

**Acute - Inhaled** Vapour or mist can cause irritation of the nose and throat.

**Chronic** - Dermatitis may occur from prolonged or repeated skin contact.

## FIRST AID

**Swallowed:** Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. Seek immediate medical assistance.

**Eye** Seek immediate medical assistance. Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.

**Skin** Remove contaminated clothing and wash before re-use. Wash affected areas with copious quantities of water immediately. Seek immediate medical advice.

**Inhaled** Remove source of contamination or move victim to fresh air. Seek immediate medical attention.

### First Aid Facilities

Maintain eyewash fountain and drench facilities in work area.

### Other Information

If poisoning occurs, contact a Doctor or Poisons Information Centre.

Phone 13 1126 from anywhere in Australia, NZ 0800764766

**Advice to Doctor:** Treat symptomatically as for strong acids. Consult Poisons Information Centre.

## PRECAUTIONS FOR USE

### Exposure Limits Name, mg/m<sup>3</sup> (STEL), ppm (STEL), mg/m<sup>3</sup> (TWA), ppm (TWA), TWA Footnote

Phosphoric acid 85%	3	1
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### Other Exposure

**Info:** No exposure standards have been established for this material by the NOHSC however an exposure standard for the constituent Phosphoric acid is listed below  
STEL: 3 mg/m<sup>3</sup> - - Work safe Aust.

A time weighted average (TWA) has been established for Phosphoric acid (Worksafe Aust) of 1 mg/m<sup>3</sup>. The corresponding STEL level is 3 mg/m<sup>3</sup>. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

**Eng. Controls** In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

### Respiratory Protection (AS/NZS 1716)

Where ventilation is inadequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-face piece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**Eye Protection:** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Glove Type** Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

**Clothing** Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection against Hazardous Chemicals.

**Footwear** Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

**Work/Hygienic Practices**

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Flammability**

**Fire Hazards** Non combustible material.

**SAFE HANDLING INFORMATION**

**Storage and Transport Storage**

**Precautions:**

Store in well ventilated area. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Store above 15 °C.

**Transport Information.** This is a Class 8 Corrosive substance according to Australian Code for Transport of dangerous Goods by road and rail. Class \* corrosive substances are incompatible in a placard load with any of the following:

Class 1, Explosives

Class 4.3, Dangerous when wet substances

Class 5.1& 5.2, Oxidising agents and Organic peroxides

Class 6, Toxic substances where Class 6 are cyanides

Class 7; and are incompatible with food and food packaging in any quantity.

Class 8, goods are strong acids,

**Storage Regulations**

Refer Australian Standard AS 3780 - 1994 'The storage and handling of corrosive substances'.

**Proper Shipping Name**

PHOSPHORIC ACID

**EPG Number** 8A1

**IERG Number** 37

**Packaging Method**

5.9.8RT8

**Spills & Disposal** Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. Do NOT touch or walk through this product. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so. Prevent entry into waterways, drains, and confined areas. Cover with DRY earth, sand or other non-combustible material followed by plastic sheet to minimize spreading or contact with rain.

DO NOT GET WATER INSIDE CONTAINERS.

**Fire/Explosion Hazard**

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Some may ignite combustibles (wood, paper, clothing, etc.) Contact with metals may evolve flammable hydrogen gas.

**Fire Fighting Procedures**

Small fire: Use dry chemical, CO2 or water spray.

Large fire: Use water spray, fog or foam - Do NOT use water jets.

If safe to do so move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

### **Fire Fighting Precautions**

Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

**Hazchem Code 2R**

### **OTHER INFORMATION**

**Toxicology** Oral LD50 (rat): 1,530 mg/kg (anhydrous).

Dermal LD50 (rabbit): 2,740 mg/kg (anhydrous).

**Risk Statement** R34 Causes burns.

**Safety Statement** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell seek medical advice immediately

**Hazard Category** Corrosive

**User Codes** **User Code**

Risk Phrases 34

Safety phrases S26/S45

First Aid Phrases A,G3,E2,S1

CAS No. 7664-38-2

**Empirical Formula & Structural Formula**

H3 P O4

### **CONTACT POINT**

Independent Wholesale Welding Supply Pty Ltd (I.W.W.S) 61 2 8834 2400

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**End of MSDS. August 2009**