



# Material Safety Data Sheet

Infosafe No. LPU06 Issue Date : November 2004 ISSUED by PARCHEMC

Product Name : **EMER-TAN**

Classified as hazardous according to criteria of NOHSC

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name** EMER-TAN  
**Product Use** Rust converter  
**Company Name** Parchem Construction Products Pty Ltd (ABN 80 069 961 968)  
**Address** 7 Lucca Road Wyong  
NSW 2259 Australia  
**Emergency Tel.** 1800 638 556  
**Telephone Number/Fax** Tel: 02 4350 5000 Fax: 02 4351 2024  
**Other Information** This MSDS summaries at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Parchem Construction Products Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.  
If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard term and conditions, a copy of which is sent to our customers and is also available upon request.  
  
[www.parchem.com.au](http://www.parchem.com.au)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Ethyl alcohol	64-17-5	10-20 %
	Water	7732-18-5	1-10 %
	Phosphoric acid	7664-38-2	1-5 %

## 3. HAZARDS IDENTIFICATION

Classified as Hazardous according to criteria of NOHSC.  
Classified as a Dangerous Good according to the ADG Code.

**Risk Phrases:**  
Highly flammable.  
Causes burns.

**Safety Phrases:**  
Do not breathe gas/fumes/vapour/spray.  
Avoid contact with skin and eyes.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Keep away from sources of ignition - No smoking.  
Do not empty into drains.  
Take precautionary measures against static discharges.  
Wear suitable protective clothing, gloves and eye/face protection.

## 4. FIRST AID MEASURES

**Inhalation** Remove source of contamination or victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops, seek immediate medical attention.

**Ingestion** Do NOT induce vomiting. Immediately wash mouth out with water. Seek IMMEDIATE medical attention.

**Skin** Wash gently and thoroughly with water and non-abrasive soap. Contaminated clothing and footwear should be removed as soon as practical and thoroughly cleaned before reuse. If irritation develops, seek IMMEDIATE medical attention.

**Eye** Wash with large amount of water, holding eyelid(s) open. Take care not to rinse contaminated water into non-affected eye. Seek IMMEDIATE medical attention.



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**First Aid Facilities** An eye wash fountain, safety shower and a general washing facility should be available immediately adjacent to the work area.  
**Advice to Doctor** Treat symptomatically.  
**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media** Water spray, carbon dioxide, alcohol foam, dry chemical. Use water spray to keep fire-exposed containers cool. Do NOT use high volume water jet.

**Specific Hazards** Highly flammable. Products of combustion are toxic. Ensure adequate ventilation to prevent explosive vapour-air mixture and prevent build-up of electrostatic charges (i.e. by grounding). Vapour/air mixtures may ignite explosively and flashback along the vapour trail. Remove sources of re-ignition.

**Hazardous** Oxides of carbon.

**Combustion Products**

**Precautions in connection with Fire** Self-contained breathing apparatus (S.C.B.A) and full protective clothing should be worn.

## 6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert, non combustible, absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

## 7. HANDLING AND STORAGE

**Handling** Repeated or prolonged exposure to this material should be avoided in order to lessen the possibility of disorders. Use in a well ventilated area. Prohibit sources of sparks, ignition and naked flames. Wear appropriate protective equipment. It is essential that all who come into contact with this material, maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet. Build-up of vapour or mist in the working atmosphere must be prevented. Ensure ventilation is adequate. DO NOT enter confined spaces where vapour or mist may have collected. Keep containers closed when not in use. Prevent accumulation of static electricity and earth all equipment.

**Storage** Flammable, corrosive liquid for storage and handling purposes. Keep tightly closed in a dry, cool, well-ventilated area, out of direct sunlight. Provide a catch-tank in a bunded area. Avoid sparks, flames and other ignition sources. Store away from incompatible materials. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the store-room reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all Local, State and Federal regulations.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Ethyl alcohol			1880	1000	
	Phosphoric acid	3		1		
<b>Other Exposure Information</b>	No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Exposure Standards for ethyl alcohol and phosphoric acid are listed above.					



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<b>Respiratory Protection</b>	Use only with adequate ventilation. Avoid breathing of vapours, mists or spray. Where ventilation is inadequate and vapours or mists are generated, the use of an approved respirator with filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended; however final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715- Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716- Respiratory Protective Devices.
<b>Eye Protection</b>	The use of face shields or safety glasses with side shield protection recommended as appropriate. Final choice of appropriate eye/face protection will vary according to individual circumstances including methods of handling or engineering controls as determined by appropriate risk assessments. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Impervious gloves are recommended. Final choice of appropriate glove type will vary according to individual circumstances, including methods of handling or engineering controls as determined by appropriate risk assessments. Refer to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.
<b>Body Protection</b>	Suitable impervious protective clothing recommended.
<b>Eng. Controls</b>	Provide sufficient ventilation. Where vapours are generated and/or exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.
<b>Other Information</b>	Biological Limit Value: No biological limit allocated.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark brown liquid with mild inoffensive odour.
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	78°C (ethanol)
<b>Solubility in Water</b>	Soluble
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	0.99-1.03 @ 25°C
<b>pH Value</b>	1-2 (using litmus paper)
<b>Vapour Density (Air=1)</b>	Not available
<b>Viscosity</b>	11-13 seconds @ 25°C
<b>Flash Point</b>	13°C (ethanol)
<b>Flammability</b>	Highly flammable. Avoid sources of ignition, heat and sparks.
<b>Flammable Limits LEL</b>	3.5% (for ethanol)
<b>Flammable Limits UEL</b>	19% (for ethanol)

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Materials to Avoid</b>	Strong oxidising.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce toxic vapours/fumes including oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No toxicology data available for this product.
<b>Inhalation</b>	May cause irritation to the mucous membrane and upper airways. Symptoms of exposure may include nausea, headaches, vomiting, coughing and breathing.



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**Ingestion** Will cause severe gastrointestinal irritation with possible burns to mouth, throat and stomach. Symptoms may include nausea, vomiting and severe abdominal pain.

**Skin** Will cause severe irritation with possible burns to skin, which can result in redness, pain or tissue destruction (ie. scarring).

**Eye** Will cause burns to eyes resulting in redness, swelling, itching, blurred vision and possible permanent eye damage ie. blindness.

**Chronic Effects** Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

## 12. ECOLOGICAL INFORMATION

**Environ. Protection** Avoid contaminating waterways, sewers or drains.

**Mobility** No data is available for this specific material.

**Persistence / Degradability** No data is available for this specific material.

**Ecotoxicity** No data is available for this specific material.

## 13. DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

## 14. TRANSPORT INFORMATION

This material is classified as a Class 3 Flammable Liquid and subsidiary Class 8 Corrosive Substance Dangerous Good according to the Australian Code for the Transport of Dangerous Goods. These substances are incompatible in a placard load with any of the following:

- Class 1, Explosives,
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk,
- Class 2.3, Toxic Gases,
- Class 4.2 Spontaneously Combustible Substances,
- Class 4.3, Dangerous When Wet Substances,
- Class 5.1, Oxidising Agents & Class 5.2 - Organic Peroxides,
- Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids),
- Class 7, Radioactive Substances,
- Class 8, Corrosive Substances (concentrated strong acid is to be segregated from concentrated strong alkali), and are incompatible with food and food packaging in any quantity.

**ADG U.N. Number** 2924

**ADG Proper Shipping Name** FLAMMABLE LIQUID, CORROSIVE, N.O.S. - (Contains 1-5% Phosphoric Acid and 10-20% Ethyl Alcohol)

**ADG DG Class** 3

**ADG Sub.Risk** 8

**ADG Hazchem Code** 3WE

**ADG Packing Group** II

**ADG EPG Number** 8C1

**ADG IERG Number** 18

## 15. REGULATORY INFORMATION

**Risk Phrase** R11 Highly flammable.  
R34 Causes burns.

**Safety Phrase** S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe gas/fumes/vapour/spray.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S29 Do not empty into drains.  
S33 Take precautionary measures against static discharges.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**Poisons Schedule** Not Scheduled



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**Hazard Category** Corrosive, Highly Flammable

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## 16. OTHER INFORMATION

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**Contact Person/Point** Technical Support: 1800 812 864

**SDS History** MSDS creation: November 2004

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