

# Material Safety Data Sheet

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Issued by HYCHEM January 2010

Product Name: **HYCHEM TL 5 SP HARDENER**

Classified as Hazardous according to criteria of NOHSC

## COMPANY DETAILS

**Company Name** HYCHEM INTERNATIONAL P/L  
**Address** 3/19 Burns Road, Heathcote NSW 2233  
**Emergency Tel.** (02) 9548 2186  
**Tel/Fax** ph: (02) 9548 2186 fax: (02) 9520 2522

## IDENTIFICATION

**Product Name** HYCHEM TL5 SP Hardener  
**Proper Shipping Name** Corrosive paste, basic N.O.S.\*  
**UN Number** 2735  
**DG Class** 8  
**Sub. Risk** 3  
**Packing Group** III  
**Hazchem Code** 2X  
**Poisons Schedule** S5  
**Product Use** Curing agent for epoxy resins

## Physical Data

**Appearance** Blue paste with amine like odour  
**Boiling Point** Not determined  
**Vapour Pressure** Not determined  
**Specific Gravity** 1.0 (water=1)  
**Flash Point** Greater than 130 deg. C  
**Flamm Limit LEL** None  
**Flamm. Limit UEL** Not measured  
**Solubility in Water** insoluble

## Other Properties

**Corrosiveness** Corrosive to soft metals.  
**pH Value** 11  
**Stability** Stable under normal conditions of use.  
**Haz.** Will not occur.  
**Polymerization**  
**Materials to Avoid** Strong oxidising agents and acids.

## Ingredients

Ingredients	Name	CAS	Proportion
	m xylene diamine	1477-55-0	10 - 30 %
	Trimethylhexamethylenediamine	25620-58-0	10 - 30 %
	4 tert. Butyl phenol	98-54-4	10 - 30 %
	4 nonyl phenol	25154-52-3	less than 10 %

## HEALTH HAZARD INFORMATION

### Health Effects

**Acute - Swallowed** Harmful if swallowed. Will cause severe irritation and chemical burns to mouth, oesophagus and stomach. Symptoms will include nausea, vomiting, abdominal pain, tissue damage and pulmonary oedema.

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<b>Acute - Eye</b>	Will cause severe irritation and chemical burns in contact with the eyes. Risk of serious damage to the eyes, which can result in permanent eye damage or blindness.
<b>Acute - Skin</b>	Will cause severe irritation and chemical burns to the skin, resulting in redness, swelling, itching, dermatitis, necrosis and tissue damage.
<b>Acute - Inhaled</b>	Harmful if inhaled. May cause severe irritation and chemical burns to the mucous membrane and upper airways. Symptoms can include nausea, vomiting, breathing difficulties and in severe cases pulmonary oedema.
<b>Chronic</b>	Prolonged or repeated contact with this material will result in severe irritation leading to dermatitis and tissue damage. Breathing of vapours or mists will cause severe irritation and possible lung damage.

## First Aid

<b>Swallowed</b>	DO NOT induce vomiting. Immediately wash out mouth with water and then give plenty of water to drink. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>Eye</b>	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>Skin</b>	Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>Inhaled</b>	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation (CPR). SEEK MEDICAL ATTENTION.
<b>First Aid Facilities</b>	Eye wash and normal washroom facilities.

## Advice to Doctor

<b>Advice to Doctor</b>	Treat symptomatically or consult a Poisons Information Centre. Caution should be taken when performing gastric lavage due to the corrosive nature of this product.
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## Other Health Hazard Information

### PRECAUTIONS FOR USE

Exposure Limits	Name	TWA		STEL		Footnote
		ppm	mg/m3	ppm	mg/m3	

<b>Other Exposure Info</b>	No exposure standards have been established for this material by the National Occupational Health and Safety Commission (NOHSC), however for individual constituents refer to the "Exposure Limits" section above.
<b>Eng. Controls</b>	Good ventilation should be used. Ensure ventilation is adequate to maintain air sufficient air is replaced to concentrations below exposure standards. If local exhaust ventilation is used, ensure sufficient air is replaced to compensate the air that has been removed.

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### **Personal Protection**

**Respirator Type (AS 1716)** Where ventilation is inadequate, the use of an Air Purifying Respirator with a combined Organic Vapour/Acids Gas filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended.

**Eye Protection** The use of chemical goggles or safety glasses with side shield protection is recommended.

**Glove Type** The use of Neoprene, Nitrile or PVC gloves is recommended.

### **Flammability**

**Fire Hazards** Combustible Liquid. Product is not classified as flammable

### **SAFE HANDLING INFORMATION**

#### **Storage and Transport**

**Storage Precautions** Overheating may cause containers to rupture. Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames and other heat sources. Store away from incompatible materials such as materials that support combustion (oxidizing materials). Store in suitable, labelled containers. Empty containers will retain residue and may be dangerous. Check all containers for leaks at regular intervals and before use.

**Transport** This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Class 8 – 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, 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
- and are incompatible with food and food packaging in any quantity.

**Storage Regulations** This material is a SCHEDULED (S5) POISON and must be stored, handled and maintained according to the appropriate Commonwealth Regulations.

**Handling** Ensure a high level of personal hygiene is maintained when using this product ie always wash hands before eating, drinking smoking or using the toilet.

**Proper Shipping** CORROSIVE Paste FLAMMABLE, N.O.S.\*

**Name**

**EPG Number** 8B1

**IERG Number** 18

### **Spills and Disposal**

**Spills & Leaks** Remove all sources of ignition. Increase ventilation. Wear sufficient respiratory protection and full protective clothing to minimise skin exposure. If possible, contain the spill. Place inert absorbent such as vermiculite, sand or dirt onto material. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Mop up the remaining material and place into the same container. If large quantities of this material enter the waterways, contact the Environmental Protection Authority or your local Waste Management Authority.

**Disposal** Disposal of this material should be undertaken by a registered chemical disposal company.

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## Fire/Explosion Hazard

<b>Hazardous</b>	Gaseous combination of carbon, hydrogen, nitrogen and oxygen may occur at elevated temperatures.
<b>Decomposition or Byproducts</b>	
<b>Fire Fighting</b>	Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin exposure.
<b>Precautions</b>	
<b>Extinguishing Media</b>	Water fog (not a direct stream of water), foam, carbon dioxide and dry chemicals.
<b>Hazchem Code</b>	2W

## OTHER INFORMATION

<b>Toxicology</b>	No toxicity data is available for this material.
<b>Environmental Protection</b>	Prevent this material entering waterways, drains and sewers.
<b>Risk Statement</b>	R34 Causes burns. R41 Risk of serious damage to eyes. R20/22 Harmful by inhalation and if swallowed.
<b>Safety Statement</b>	S2 Keep out of reach of children. S23 Do not breathe gas / fumes / vapour / spray. S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible). S62 If swallowed, do not induce vomiting; seek medical advice immediately and show container or label. S24 / 25 Avoid contact with skin and eyes. S36 / 37 Wear suitable protective clothing and gloves.
<b>Hazard Category</b>	Harmful, Corrosive

## CONTACT POINT

<b>Contact</b>	Technical Manager Ph: (02) 9548 2186
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.....End of Report.....