

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product Name HARDENER
 1.2 Manufacturer's Product Code 0203B
 1.3 Uses Industrial Paint Hardener
 1.4 Company PPG INDUSTRIES NEW ZEALAND LTD
 Address 5 MONAHAN ROAD, MT WELLINGTON,
 AUCKLAND
 www.ppgnz.co.nz
 Telephone Number 09 573 1620, 0800 659378
 021 246 0188 (24 Hours)
 Emergency Telephone POISONS CENTRE: 0800 764766, 03 474 7000 (24 hrs)

**SECTION 2 - HAZARDS IDENTIFICATION**

2.1 Statement of Hazardous Nature Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.
 2.2 HSNO Classification 3.1B,6.1D (ORAL),6.1E (DERM),6.3A,6.5B,6.8B,6.9B,8.3A,9.1D,9.3C
 2.3 Signal Word DANGER
 2.4 Hazard Statements Highly flammable liquid and vapour. Harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. May cause long lasting harmful effects to aquatic life. Harmful to terrestrial vertebrates.
 2.5 Precautionary Statements Read label before use. Keep away from heat/sparks/open flame/hot surfaces. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Keep out of reach of children. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing mist/vapours spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe mist/vapours/spray. Avoid release to the environment.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Ingredients**

Chemical Entity	CAS No.	Weight%	HSNO Classification of Ingredients
TOLUENE	108-88-3	30-60%	3.1B,6.1D (INHL),6.1D (ORAL),6.3A,6.4A,6.8B 6.9B,9.1D,9.3C
XYLENE	1330-20-7	10-30%	3.1C,6.1D (DERM),6.1D (ORAL),6.1E (INHL),6.3A 6.4A,6.8B,6.9B,9.1D,9.3C
POLYAMIDE RESIN		10-30%	6.5B,8.3A
P G M M E	107-98-2	10-30%	3.1C,6.1E (ORAL),6.3B,6.4A
MANNICH BASE		<1%	6.1D (DERM),6.1D (ORAL),8.2C,8.3A

SECTION 4 - FIRST AID MEASURES**4.1 First Aid****Swallowed**

Rinse mouth.
Do NOT induce vomiting.
Immediately call a POISON CENTRE or doctor/physician.

Eye Contact

Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do so. Continue rinsing.
If eye irritation persists, get medical advice/attention.

Skin Contact

Remove/Take off immediately all contaminated clothing.
Wash with plenty of soap and water.
Call a POISON CENTRE or doctor/physician if you feel unwell.

Inhaled

Remove to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTRE or doctor/physician if you feel unwell.

4.2 Advice to Doctor

Have product container or label at hand. The National Poisons Centre (Tel: 0800 POISON; 03-474-7000) are able to offer advice. Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES**5.1 Fire/Explosion Hazard**

Flammable Liquid. Vapours form explosive mixture with air (see limits in section 9).
Extinguishing Media: Foam, Dry Powder, CO₂, Water Fog. Do not use water except as a fog to cool nearby containers. Wear breathing apparatus when fighting fire. Decomposition Products: Oxides of Carbon and Nitrogen, and possibly other noxious products.

5.2 Hazchem Code

3YE

SECTION 6 - ACCIDENTAL RELEASE MEASURES**6.1 Spills**

MINOR - Extinguish naked flames, and avoid sparks. Absorb with sand, sawdust or earth. Collect in drums, and arrange for disposal by a competent contractor, in accordance with local regulations. MAJOR - Extinguish naked flames and avoid sparks. Wear appropriate protective clothing and equipment. Evacuate surrounding personnel. Dike area of spill, and transfer to empty drums. Residue to be absorbed with sand, sawdust or earth, and placed in drums. Arrange disposal by competent contractor, in accordance with local regulations.

SECTION 7 - HANDLING AND STORAGE**7.1**

Avoid sources of heat, naked flames and sparks. Use in well ventilated area. Use flame proof equipment. Earth all containers to reduce the possibility of sparks from static electricity. Store in a cool, well ventilated place away from heat, naked flames and sparks. Store away from oxidising agents, alkaline materials and strong acids. Keep container closed at all times. Keep away from food, drink and clothing.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Standards	Chemical Entity	CAS No.	Weight%	WES/TWA	WES/STEL
	TOLUENE	108-88-3	30-60%	50ppm	
	XYLENE	1330-20-7	10-30%	50ppm	
	POLYAMIDE RESIN		10-30%	Not Known	
	P G M M E	107-98-2	10-30%	100ppm	150ppm
	MANNICH BASE		< 1%	Not Known	

8.2 Engineering Controls General mechanical ventilation or local exhaust should be suitable to keep vapour concentrations below WES/TWA. Ventilation equipment should be explosion proof.

8.3 Personal Protection Wear chemical safety glasses/goggles or faceshield. Wear half-face respirator, with organic vapour cartridge. Wear PVC or Nitrile chemical handling gloves.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**9.1 Physical Description/Properties**

Appearance	Clear Liquid, Solvent Odour.
Boiling Point	110 deg C
Specific Gravity	0.89
Flash Point c.c.	4 deg C
Flammability Limits	1 - 13.8 % by volume in air
Volatile Content	84.7 % by weight
Solubility in Water	Partly Soluble

SECTION 10 - STABILITY AND REACTIVITY

10.1 Normally stable.

SECTION 11 - TOXICOLOGICAL INFORMATION**11.1 Health Effects**

Swallowed Irritating and slightly toxic, with hazard of aspiration of swallowed liquid into lungs, causing chemical pneumonitis.

Eye Contact Eye corrosive, causing redness and severe burning sensation.

Skin Contact Irritating, causing redness and severe burning sensation.

Inhaled Harmful by inhalation. The vapour is irritating to the upper respiratory tract. May cause nausea, dizziness and narcosis. Extreme exposure may result in unconsciousness, and possibly death.

Chronic or Other Prolonged and repeated contact with the skin may irritate, and cause dermatitis. Prolonged overexposure to the solvents (inhalation and skin contact) may cause effects to the central nervous system, liver, urinary, bloodforming, cardiovascular and reproductive systems.

11.2 Toxicity of Ingredients

Chemical Entity	Weight%	LD50 Oral Rat mg/Kg	LD50 Dermal Rat or rabbit mg/Kg	LC50 Inhalation Rat mg/L/4hr
TOLUENE	30-60%	> 7000	> 2000	> 2, < 5
XYLENE	10-30%	> 2000	> 2000	> 5
P G M M E	10-30%	3700	13000	> 37500
MANNICH BASE	< 1%	1200	1280	

SECTION 12 - ECOLOGICAL INFORMATION

12.1 HSNO Hazard Statements May cause long lasting harmful effects to aquatic life.
Harmful to terrestrial vertebrates.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 General Disposal Do not let this product enter the environment. Dispose of this material and its container as hazardous waste. Do not pour unwanted paint or paint-related material down the drain. Keep unwanted material in sealed containers for disposal via special chemical waste collections. Empty paint containers should be left open in a well ventilated area to dry out. When dry, recycle steel containers via steel can recycling programs. Disposal of empty paint containers via domestic recycling programs may differ between local authorities. Check with your local council first.

13.2 Treatment Suitable treatment, in accordance with HS (Disposal) Regulations 2001, includes: Controlled burning. Export from New Zealand. Disposal via a licensed hazardous waste facility, in accordance with local regulations.

**13.3 Disposal Methods
Not To Be Used** Treatment does NOT include depositing to sewers or waterways.

SECTION 14 - TRANSPORT INFORMATION

14.1 Land For local transportation within New Zealand refer to Land Transport Rule - DG 2005; for Australia refer to ADG code.

U.N. Number:	UN1263	Shipping Name:	Paint
D.G. Class:	3a	Subsidiary Risk:	
Packing Group:	II	Hazchem Code:	3YE

SECTION 15 - REGULATORY INFORMATION

15.1 HSNO Approval Number HSR002662 - Flammable

15.2 HSNO Controls

**15.2.1 Emergency Management
Regulations** Level 1:
Labelling required when 1L is present in a workplace.
Level 2:
MSDS required when any amount is present in a workplace.
At least 2 x 4.5Kg powder fire extinguishers required when 250L is present in a workplace.
Level 3:
Emergency Response Plans and Secondary Containment required when 1000L is stored.
Flammable Signage required when 250L is stored.
Corrosive Signage required when 1000L is stored.
Ecotoxic Signage required when 10000L is stored.

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Issue Date 18 FEB 2009

Printed 18 FEB 2009 NZL0120

- 15.2.2 Classes 1 to 5 Controls Regulations** Hazardous Atmosphere Zones required for quantities greater than:
100L (closed), 25L (decanting), 5L (open occasionally), 1L (open continuously).
Hazardous Substances Location Certificate required for quantities greater than:
250L (containers up to 5L), 100L (containers >5L), 50L (open containers).
- 15.2.3 Approved Handler** Yes - For quantities greater than 500L in containers up to 5L, 250L in containers > 5L.
- 15.3 HMIS Code** 231H

SECTION 16 - OTHER INFORMATION

- 16.1 Directions for Use** Refer to the Technical Data Sheet for this product for directions for use. When sanding any paint, use wet sanding to avoid breathing dust. Wear a dust respirator if wet sanding not possible.
- 16.2 Labelled Ingredients** Contains: Toluene 30-60% w/w, Xylene 20- <25% w/w, Polyamide Resin 10- <15% w/w
- 16.3 Key/Legend** WES = Work Exposure Standard; TWA = Time Weighted Average; STEL = Short Term Exposure Limit; N/E = Not Established
- 16.4 Contact Point** COMPLIANCE MANAGER: 021 246 0188 (24 Hours)
GENERAL MANAGER: 021 792 881 (24 Hours)
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