

**SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

1.1 Product Name HARDENER  
 1.2 Manufacturer's Product Code 0755B  
 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 3.1C,6.1E (ORAL),6.3B,6.4A,6.5A,6.5B,9.1C  
 2.3 Signal Word DANGER  
 2.4 Hazard Statements Flammable liquid and vapour. May be harmful if swallowed. Causes mild skin irritation. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.  
 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. Avoid breathing mist/vapours spray. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

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

Chemical Entity	CAS No.	Weight%	HSNO Classification of Ingredients
ALIPHATIC POLYISOCYANATE		> 60%	6.5B
METHYL N- AMYL KETONE	110-43-0	10-30%	3.1C,6.1D (ORAL),6.3B,6.4A,9.3C
AROMATIC HYDROCARBON MIXTURE	64742-95-6	1-10%	3.1C,6.3B,9.1B
N BUTYL ACETATE	123-86-4	1-10%	3.1C,6.1D (INHL),6.1E (ORAL),6.3B,6.4A,9.1D
H D I	822-06-0	< 1%	6.1A (INHL),6.1C (DERM),6.1D (ORAL),6.3A,6.4A 6.5A,6.5B,6.9A,9.3B

**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, CO<sub>2</sub>, 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, Isocyanate, traces of Hydrogen Cyanide.

**5.2 Hazchem Code** 3Y

## 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 cover with water for 24 hours, before arranging for disposal by a competent contractor, in accordance with local and national 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. Cover with water for 24 hours before arranging for disposal by a competent contractor, in accordance with local and national 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. Avoid water entering the container, as there is a danger of excessive pressure build-up after resealing.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Standards	Chemical Entity	CAS No.	Weight%	WES/TWA	WES/STEL
	METHYL N- AMYL KETONE	110-43-0	10-30%	233mg/m <sup>3</sup>	
	AROMATIC HYDROCARBON MIXTURE	64742-95-6	1-10%	19 ppm	
	N BUTYL ACETATE	123-86-4	1-10%	150ppm	200ppm
	H D I	822-06-0	< 1%	0.005ppm	

**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** All mixing and handling of hardener and paint containing hardener must be carried out under working conditions that prevent skin contact and inhalation of vapours. Wear chemical safety glasses/goggles or faceshield. If spraying catalysed paint, an air-supplied hood or respirator must be used (complying with Australian Standard 1716 - Respiratory Protective Devices, or equivalent). The spray booth area should be isolated from other people while spraying is in progress, and until all spray mist has been effectively dispersed. If applying by brush or roller, a half face respirator with organic

vapour cartridge may be used instead of air-supplied hood/respirator. 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	118 deg C
Specific Gravity	1.05
Flash Point c.c.	27 deg C
Flammability Limits	1 - 8 % by volume in air
Volatile Content	25.4 % by weight
Solubility in Water	Partly soluble

Other Properties                      Contains Isocyanate

## SECTION 10 - STABILITY AND REACTIVITY

10.1                                      Normally stable.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Health Effects

<b>Swallowed</b>	Slightly toxic. Main hazard of ingestion is aspiration of swallowed liquid into lungs, causing chemical pneumonitis.
<b>Eye Contact</b>	Irritating, causing redness and burning sensation.
<b>Skin Contact</b>	Irritating, causing redness and burning sensation.
<b>Inhaled</b>	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. Breathing the vapour or spray mist is harmful and may cause an asthma like reaction. Persons suffering from chronic respiratory problems should not use this product.
<b>Chronic or Other</b>	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. Over-exposure to isocyanate, especially during spraying operations without the necessary precautions, entails the risk of concentration dependent irritating effects on eyes, nose, throat and respiratory tract. Delayed appearance of the complaints and development of hyper sensitivity (difficult breathing, coughing, asthma) are possible. Hyper sensitive persons may suffer from these effects even at low isocyanate concentrations including concentrations below TLV. In case of longer contact with skin, tanning and irritating effects are possible.

### 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
METHYL N- AMYL KETONE	10-30%	1600	9700	
AROMATIC HYDROCARBON MIXTURE	1-10%	> 2000	> 2000	
N BUTYL ACETATE	1-10%	6500	> 2000	

**SECTION 12 - ECOLOGICAL INFORMATION**

12.1 HSNO Hazard Statements Harmful to aquatic life with long lasting effects.

**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:	3b	Subsidiary Risk:	
Packing Group:	III	Hazchem Code:	3Y

**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 500L is present in a workplace.  
Level 3:  
Emergency Response Plans and Secondary Containment required when 1000L is stored.  
Flammable Signage required when 1000L is stored.  
Ecotoxic Signage required when 1000L is stored.

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:  
1500L (containers up to 5L), 500L (containers > 5L), 250L (open containers).

15.2.3 Approved Handler No

15.3 HMIS Code 331X\*

## 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: H D I < 1 % w/w, Aliphatic Polyisocyanate > 60% 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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