

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

1.1 Product Name 2K ISO FREE HARDENER HARDENER G60  
 1.2 Manufacturer's Product Code 0978B 960  
 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,6.8B,6.9B,9.1D  
 2.3 Signal Word WARNING  
 2.4 Hazard Statements Flammable liquid and vapour. May be harmful if swallowed. Causes mild skin irritation. Causes eye irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause long lasting harmful effects to aquatic life.  
 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. 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
N BUTYL ACETATE	123-86-4	30-60%	3.1C,6.1D (INHL),6.1E (ORAL),6.3B,6.4A,9.1D
XYLENE	1330-20-7	1-10%	3.1C,6.1D (DERM),6.1D (ORAL),6.1E (INHL),6.3A,6.4A,6.8B,6.9B,9.1D,9.3C
N BUTANOL	71-36-3	1-10%	3.1C,6.1D (ORAL),6.1E (DERM),6.1E (INHL),6.3A,8.3A,9.3C
AROMATIC HYDROCARBON MIXTURE	64742-95-6	< 1%	3.1C,6.3B,9.1B

Ingredients determined to be non-hazardous, or below the hazardous threshold: to 100%

**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 possibly other noxious products.

**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 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
	N BUTYL ACETATE	123-86-4	30-60%	150ppm	200ppm
	XYLENE	1330-20-7	1-10%	50ppm	
	N BUTANOL	71-36-3	1-10%	50ppm	
	AROMATIC HYDROCARBON MIXTURE	64742-95-6	<1%	19 ppm	

**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	118 deg C
Specific Gravity	1.04
Flash Point c.c.	27 deg C
Flammability Limits	1 - 8 % by volume in air
Volatile Content	50.4 % by weight
Solubility in Water	Very Low

**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.
<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.

**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
N BUTYL ACETATE	30-60%	6500	>2000	
XYLENE	1-10%	>2000	>2000	>5
N BUTANOL	1-10%	>2000	>4200	>8000
AROMATIC HYDROCARBON MIXTURE	<1%	>2000	>2000	

**SECTION 12 - ECOLOGICAL INFORMATION**

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

**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 10000L is stored.  
Flammable Signage required when 1000L is stored.  
Ecotoxic Signage required when 10000L 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** 230H

## 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** None
- 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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