

**G.P.PRIMER**

RELATES TO FARNELL PART NUMBER:

325-1330

325-1342

**CONREN LIMITED**  
**HEALTH & SAFETY DATA SHEET**

**PRODUCT NAME:** G.P. PRIMER

**INTENDED USE:** A fast drying moisture cure polyurethane primer for use in roofing protection systems. For application by brush or roller. Only to be applied by airless spray if air fed respiratory protection is used.

**COMPOSITION:** Moisture cure polyurethane resin containing a low level of 4,4' Diphenylmethane diisocyanate in 2-Ethoxy ethyl Acetate solvent (60%). The product is a light brown low viscosity liquid.

**PRODUCT CLASSIFICATION:**

The product is classified as "Flammable" under the Classification, Packaging and Labelling of Dangerous Substances Regulations 1984.

**HEALTH HAZARDS:**

Occupational exposure limits (OEL) have been established by the Health and Safety Commission for certain of the ingredients and these should always be observed. Further guidance on OEL and the assessment of occupational exposure to harmful materials including mixed exposures is given in HSE Guidance Note EH 40.

**Substance**

OEL  
8hr. TWA (\*)  
10 min. TWA (X)

2- Ethoxyethyl Acetate  
4,4' Diphenylmethane  
diisocyanate (0.5%)

10ppm 54mg/m<sup>3</sup>  
0.02 mg/m<sup>3</sup>

(M) (+)  
0.07 mg/m<sup>3</sup> (M) (Sen)

- (\*) Long term exposure limit - 8 hour time weighed average
  - (X) Short time exposure limit - 10 minute time weighted average
  - (S) Occupational Exposure Standard
  - (M) Maximum Exposure Limit
  - (+) There is a risk of absorption through unbroken skin
  - (Sen) Capable of causing respiratory sensitisation.
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- a) A major hazardous component in this product is 2- Ethoxyethyl Acetate. In the case of 2-Ethoxyethyl Acetate there is evidence from animal experiments that exposure in excess of the occupational exposure limit can have harmful effects on the reproductive system and in common with other glycol ether solvents on the blood, kidneys and the central nervous systems.
  - b) The 4,4' Diphenylmethane diisocyanate which is associated with the moisture cured polyurethane component may cause acute irritation and or sensitisation to the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Persons with a history of chronic or recurrent respiratory disease should not be employed in any process in which these products are used.
  - c) Over exposure to the product vapour is irritating to the eyes and respiratory system. Excessive concentrations may produce effects on the central nervous system including drowsiness. In extreme cases loss of consciousness may result. Long term exposure to vapour concentrations in excess of either OEL may result in adverse health effects.
  - d) Splashes entering the eye will cause discomfort and possible damage.
  - e) Prolonged contact with the skin may have a de-fatting effect which may lead to skin irritation and in some cases dermatitis.

## **PRECAUTIONS OF HANDLING AND USE**

When such products are applied by spray the aerosol mist droplets produced are mainly in the respirable size range and precautions to avoid inhalation are necessary. Air fed respiratory protective equipment must be worn by spray operators even when good ventilation is provided. Steps must be taken to ensure that no unprotected persons are nearby.

When the product is applied by brush or roller care should be taken to ensure that application is only undertaken in areas with good natural ventilation and if necessary local exhaust ventilation. Particular care should be taken to avoid using the product in enclosed spaces unless air fed respiratory protective equipment is used. Steps must be taken to ensure that persons nearby are not affected by the product vapour and that the vapour is not allowed to enter ventilation points, rooflights or windows adjacent to the work area.

Contact with skin and eyes should be avoided by organising suitable work practices.

Where this is not reasonably practicable appropriate protective clothing, and eye protection to B.S. 2092C should be worn. Barrier creams may help to protect exposed areas of skin but are not a substitute for full physical protection (See Additional Information).

When using this product the following protective equipment should be used where required to prevent contact with the material.

1. Nitrile Gloves.
2. B.S. 2092C rated eye protection.
3. Air fed respiratory protection equipment.
4. Overalls.
5. Boots.

## **FIRST AID PROCEDURE**

**Inhalation:** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or has stopped administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position. Seek medical advice.

**Eye Contact:** Irrigate copiously with clean, fresh water for at least ten minutes, holding the eyelids apart. Seek medical advice. Any contact lenses must be removed.

**Skin Contact:** Remove contaminated clothing, wash skin thoroughly with soap and water, or use a proprietary skin cleanser. Do not use solvents or thinners. Seek medical advice.

**Ingestion:** If accidentally swallowed, DO NOT INDUCE VOMITING, keep at rest and obtain medical advice.

In the case of doubt, or where symptoms persist, seek medical attention.

## **STORAGE**

Store in a well ventilated place away from sources of ignition. No smoking. No naked lights. Keep dry.

## **FIRE PREVENTION**

The product is flammable with a flash point (closed cup) of 57°C.

To prevent the creation of flammable concentrations of vapour in the air, good natural ventilation and, if necessary, local exhaust ventilation should be provided. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition, including unprotected electrical equipment, have been excluded.

Care should be taken to avoid the risk of electrostatic ignition.

## **FIRE FIGHTING**

Fire will produce black smoke containing harmful products of combustion. Use foam or dry powder extinguishing agents. Cool containers exposed to fire with water spray.

## **SPILLAGE**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand or earth. Do not allow to enter drains or water courses. Exclude sources of ignition. Ventilate area.

## **ENVIRONMENTAL**

Waste materials must be treated as a fire hazard and disposed of in accordance with the general requirements of the Control of Pollution Act 1974.

## **ADDITIONAL INFORMATION**

Guidance on health issues is given in HSE Guidance Notes MS8 "Isocyanates Medical Surveillance" and EH16 "Isocyanates: Toxic Hazards and Precautions" in Guidelines published by the Paintmakers Association "Paint Users Safety Precautions" and in the HSE card "Your health and 2-pack spray paints".

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