



SAFETY DATA SHEET GARLAND PU PRIMER 7750

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name GARLAND PU PRIMER 7750

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Primer / sealer.

1.3. Details of the supplier of the safety data sheet

Supplier Garland Company UK Ltd,
Unit 5, Glevum Works,
Upton Street,
Gloucester GL1 4LA
UK
Tel: 01452 330 646
Fax: 01452 330 657
email: info@garlandukltd.co.uk

1.4. Emergency telephone number

01452 330646
09:00 - 17:00 Monday to Friday

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R20/21, R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38. R10.

Human health

Limited evidence of a carcinogenic effect. Carcinogen Category 3. Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Physical and Chemical Hazards

Flammable. The product may form explosive vapours/air mixtures even at normal room temperatures.

2.2. Label elements

Contains DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues
XYLENE

Labelling



Harmful

Risk Phrases

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety Phrases

S16	Keep away from sources of ignition - No smoking.
S36/37	Wear suitable protective clothing and gloves.

GARLAND PU PRIMER 7750

S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest
P4	Contains isocyanates. See information supplied by the manufacturer.
S23	Do not breathe vapour.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

DIBUTYLTIN DILAURATE	< 1%
CAS-No.: 77-58-7	EC No.: 201-039-8
Classification (EC 1272/2008) Skin Corr. 1B - H314 Skin Sens. 1 - H317 Muta. 2 - H341 Repr. 1A - H360FD STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) T;R48/25. Repr. Cat. 1;R60,R61. Muta. Cat. 3;R68. C;R34. N;R50/53. R43.
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues	10-30%
CAS-No.: 9016-87-9	EC No.:
Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373	Classification (67/548/EEC) Xn;R20,R48/20. Carc. Cat. 3;R40. R42,R42/43.
XYLENE	50-70%
CAS-No.: 1330-20-7	EC No.: 215-535-7
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately! Do not give victim anything to drink if he is unconscious.

GARLAND PU PRIMER 7750

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information

Onset of symptoms may be delayed.

Inhalation.

Vapours may irritate throat and respiratory system and cause coughing.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

Skin irritation. Prolonged skin contact may cause redness and irritation. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

Eye contact

Irritating to eyes. Irritating and may cause redness and pain. Profuse watering of the eyes.

4.3. Indication of any immediate medical attention and special treatment needed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire, toxic gases may be formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control. Containers close to fire should be removed or cooled with water.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. DO NOT touch spilled material! Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Use only non-sparking tools.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

GARLAND PU PRIMER 7750

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Avoid inhalation of vapours. Avoid contact with skin and eyes. Provide good ventilation. Use only non-sparking tools. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges.

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	
XYLENE	WEL	50 ppm	220 mg/m3	100 ppm	441 mg/m3	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Engineering measures

Provide adequate ventilation.

Respiratory equipment

In case of inadequate ventilation use suitable respirator. Full face mask fitted with an organic AXP3 filter for short term low level exposure. For long term high level exposures, compressed airline breathing apparatus should be used. Seek advice from supervisor on the companies' respiratory protection standards.

Hand protection

Use protective gloves made of: Viton or 4H. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.

Hygiene measures

Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Brown.
Solubility	Not available.
Relative density	1.1
Flash point	25°C
Auto Ignition Temperature (°C)	500°C
Flammability Limit - Lower(%)	11%
Flammability Limit - Upper(%)	7%

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reaction with: Strong oxidising agents. Acids.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Not noted.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Hot surfaces.

10.5. Incompatible materials

Materials To Avoid

Strong acids. Strong oxidising substances.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other Health Effects

Carcinogen Category 3.

General information

NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to respiratory system. May cause sensitisation by inhalation. Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

Harmful in contact with skin. Irritating to skin. May cause sensitisation by skin contact.

Eye contact

Irritating to eyes. Irritating and may cause redness and pain. Profuse watering of the eyes.

Toxicological information on ingredients.

XYLENE (CAS: 1330-20-7)

Acute toxicity:

Acute Toxicity (Oral LD50)

3523 mg/kg Rat

REACH dossier information

Acute Toxicity (Dermal LD50)

> 4200 mg/kg Rabbit

REACH dossier information

Acute Toxicity (Inhalation LC50)

6350 ppm (vapour) Rat 4 hours

REACH dossier information

GARLAND PU PRIMER 7750
DIBUTYLTIN DILAURATE (CAS: 77-58-7)

Acute toxicity:

Acute Toxicity (Oral LD50)

2071 mg/kg Rat

REACH dossier information

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

REACH dossier information

DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues (CAS: 9016-87-9)

Acute toxicity:

Acute Toxicity (Oral LD50)

49000 mg/kg Rat

Miscellaneous reference sources.

Acute Toxicity (Dermal LD50)

> 9400 mg/kg Rabbit

Miscellaneous reference sources.

Acute Toxicity (Inhalation LC50)

490 mg/m³ Rat 4 hours

Miscellaneous suppliers' data.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

Ecological information on ingredients.

XYLENE (CAS: 1330-20-7)

Acute Toxicity - Fish

LC50 96 hours 2.6 mg/l Onchorhynchus mykiss (Rainbow trout)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

IC50 24 hours 1 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 73 hours 4.36 mg/l Selenastrum capricornutum

REACH dossier information

DIBUTYLTIN DILAURATE (CAS: 77-58-7)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 1.7 mg/l Daphnia magna

REACH dossier information

NOEC 48 hours 1.7 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours > 1 mg/l Scenedesmus subspicatus

REACH dossier information

DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues (CAS: 9016-87-9)

Acute Toxicity - Fish

LC50 96 hours > 100 mg/l Brachydanio rerio (Zebra Fish)

Miscellaneous reference sources.

12.2. Persistence and degradability

Degradability

Partially biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

Not available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133

14.2. UN proper shipping name

Proper Shipping Name	ADHESIVES
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-E, S-D
Emergency Action Code	•3YE
Hazard No. (ADR)	33
Tunnel Restriction Code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION**Revision Comments**

Ingredient toxicological and ecotoxicological data updated.

Revision Date	05-2012
Revision	1
Supersedes date	09-2011

Risk Phrases In Full

R34	Causes burns.
R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20	Harmful by inhalation.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R61	May cause harm to the unborn child.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R60	May impair fertility.
R68	Possible risk of irreversible effects.
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GARLAND PU PRIMER 7750

Hazard Statements In Full

H372	Causes damage to organs <<Organs>> through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H335	May cause respiratory irritation.
H360FD	May damage fertility or the unborn child.
H351	Suspected of causing cancer.
H341	Suspected of causing genetic defects.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.