



SAFETY DATA SHEET

GARLAND MEMBRANE ADHESIVE 3-107

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 MEMBRANE ADHESIVE 3-107
Product No. 3-107

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

Identified uses Adhesive

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) R10.

Physical And Chemical Hazards

Flammable. Vapours are heavier than air and may travel along the floor and in the bottom of containers.

2.2. Label elements

Risk Phrases

R10 Flammable.

Safety Phrases

S60 This material and its container must be disposed of as hazardous waste.
 S43 In case of fire use powder and CO2 extinguisher.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY		10-20%
CAS-No.: 64742-48-9	EC No.: 265-150-3	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Flam. Liq. 3 - H226	Xn;R65.	
EUH066	R10,R66.	
Asp. Tox. 1 - H304		

GARLAND MEMBRANE ADHESIVE 3-107

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM		0.20-0.25%
CAS-No.: 64742-95-6	EC No.: 265-199-0	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT Single 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.	

The Full Text for all R-Phrases and Hazard Statements is 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

Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

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

Inhalation.

Vapours may cause drowsiness and dizziness.

Ingestion

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

Skin Contact

Prolonged skin contact may cause redness and irritation.

Eye Contact

May irritate 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 foam, carbon dioxide, dry powder or water fog.

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

None at ambient temperatures.

Unusual Fire & Explosion Hazards

FLAMMABLE. Solvent vapours may form explosive mixtures with air. May travel considerable distance to source of ignition and flash back.

Specific Hazards

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrocarbons.

5.3. Advice for firefighters

Special Fire Fighting Procedures

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

GARLAND MEMBRANE ADHESIVE 3-107

Protective Measures In Fire

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

Do not allow to enter drains, sewers or watercourses.

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. 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.

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

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Risk of vapour concentration on the floor and in low-lying areas. Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

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

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

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective Equipment



Engineering Measures

Provide adequate ventilation.

Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand Protection

Use protective gloves. 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 chemical safety goggles where eye exposure is reasonably probable.

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	Paste
Colour	Black
Relative Density	1.28 - 1.38
Vapour Pressure	Not available. mm Hg
Viscosity	> 7 m ² /s @ 40°C (ISO 3219)
Flash Point (°C)	> 40°C Not noted.

9.2. Other information

Volatile Organic Compound (VOC)	222.77 g/litre
	Volatile carbon 14.18% - 188.59 g/L

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions**Hazardous Polymerisation**

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Electrostatic Discharge.

10.5. Incompatible materials**Materials To Avoid**

No incompatible groups noted.

10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion.

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

Skin Contact

Prolonged contact may cause redness, irritation and dry skin.

Eye Contact

May irritate eyes.

Name	LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTR
Toxic Dose 1 - LD 50	3500 - 14000 mg/kg (oral rat)
Toxic Dose 2 - LD 50	> 2000 mg/kg (skin-rbt)
Toxic Conc. - LC 50	> 5.2 mg/l/4h (inh-rat)
Name	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM
Toxic Dose 1 - LD 50	8400 mg/kg (oral rat)
Toxic Conc. - LC 50	> 5.2 mg/l/4h (inh-rat)

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity:**

There are no data on the ecotoxicity of this product.

GARLAND MEMBRANE ADHESIVE 3-107

12.1. Toxicity

12.2. Persistence and degradability

Degradability:

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative Potential:

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined.

Name	LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY
LC 50, 96 Hrs, Fish mg/l	8.2 - 119
EC 50, 48 Hrs, Daphnia, mg/l	6.14
IC 50, 72 Hrs, Algae, mg/l	3.29 - 19
Name	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM
LC 50, 96 Hrs, Fish mg/l	9.22 - 119
EC 50, 48 Hrs, Daphnia, mg/l	6.14
IC 50, 72 Hrs, Algae, mg/l	3.29 - 56

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

Road Transport Notes	Special Provision: 640E. Limited Quantity: LQ7. The product, if packaged in packages of less than 450 ltr is not subject to ADR Regulations as stated in 2.2.3.1.5.
Rail Transport Notes	Special Provision: 640E. Limited Quantity: LQ7.
Sea Transport Notes	The product, if packaged in packages of less than 30 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG code.
Air Transport Notes	Packing Instructions 309: maximum quantity - 60 L Packing Instructions 310: maximum quantity - 220 L

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	III
IMDG Packing group	III
ICAO Packing group	III

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)	30
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

This is first issue.

Revision Date 04-2011

Risk Phrases In Full

R10	Flammable.
R65	Harmful: may cause lung damage if swallowed.
R37	Irritating to respiratory system.
R66	Repeated exposure may cause skin dryness or cracking.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

GARLAND MEMBRANE ADHESIVE 3-107

Hazard Statements In Full

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.
H411	Toxic to aquatic life with long lasting effects.