



since 1895

# SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

Product Name:

**DURA-WALK MEMBRANE**

SDS Reference

Version No. 1

Initial issue date

February 24<sup>th</sup> 2016

Revision date

## SECTION 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name	Dura-Walk Membrane		
1.2 Relevant Use(s)/misuse(s)	Sealant		
1.3 SDS Supplier	The Garland Company UK Ltd Unit 5 Glevum Works Upton Street, Gloucester GL1 4LA, UK	Telephone: 01452 330646 Mobile: 07887 923 121 Website: www.garlandukltd.co.uk	
1.4 Emergency Telephone	44 (0)1452 330646 (Office hours)	Competent person e-mail: trevor@rising-hsande.co.uk	

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE MIXTURE

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Flam Liq. 2 H225  
Skin Irrit. 2 H315  
Skin Sen. 1 H317  
STOT SE 3 H335

#### 2.1.2 Additional information

See section 16 for full text of H statements

### 2.2 LABELLING ELEMENTS

Pictogram(s):



**Signal word**

DANGER

**Hazard statement(s)**

H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR  
H315 CAUSES SKIN IRRITATION.  
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.  
H335 MAY CAUSE RESPIRATORY IRRITATION.

**Product Name:**

# DURA-WALK MEMBRANE

**SDS Reference**

**Precautionary statement(s)**

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. — NO SMOKING.  
H261 AVOID BREATHING FUME, GAS, MIST, VAPOURS, SPRAY  
P281 USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.  
P302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER  
P304+340 IF INHALED: REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.  
P308+313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.

THE PREPARATION CONTAINS A SUBSTANCE THAT HAS A WORKPLACE EXPOSURE LIMIT (WEL)

## 2.3 OTHER HAZARDS

## **SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Chemical Characterisation**

A MIXTURE OF ORGANIC SUBSTANCES

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
METHYL METHACRYLATE (REACH Reg. No. . 01-2119452498-28-XXXX)	80-62-6	201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1 H317; STOT SE3 H335	25-50%
DECANEDIOIC ACID ESTER (REACH Reg. No. 17-2119931815-34-XXXX)	41556-26-7	255-437-1	Skin Sens. 1 H317; Aquatic Acute 1 H400	<1%
DECANEDIOIC ACID (REACH Reg. No 05-2114346636-43-XXXX)	82919-37-7	280-060-4	Skin Sens. 1 H317; Aquatic Acute 1 H400; Aquatic Chronic 1 H410	<1%

## **SECTION 4. FIRST AID MEASURES**

**4.1 Description of measures**

**Inhalation** Remove casualty to fresh air and provide warmth and rest. . If necessary, seek medical advice.

**Skin contact** Immediately clean areas of skin affected with plenty of water. If necessary, seek medical advice.

**Eye contact** Wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.

**Ingestion** Allow the patient to vomit on his own accord. Give copious water to drink; If necessary, seek medical advice.

**4.2 Most important effects/symptoms**

None known.

**4.3 Immediate/special treatment**

Treatment as described above.

## **SECTION 5. FIRE FIGHTING MEASURES**

**5.1 Extinguishing media** To suit local surroundings (e.g. carbon dioxide, foam, water mist or chemical powder). Do not use water jet.

**5.2 Special hazards** Hazardous decomposition products formed under fire conditions. Flash back possible over considerable distance. Explosive reaction may occur on heating or burning. Burning produces irritant fumes.

**5.3 Advice for fire fighters** Wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal precautions</b>	Adhere to personal protective measures. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from sources of ignition- No smoking!
<b>6.2 Environmental precautions</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
<b>6.3 Methods and materials for cleaning up</b>	Adhere to personal protective measures. Take up with absorbent material, e.g. sand, sawdust, into tightly closed containers. Label container and dispose of as prescribed
<b>6.4 Reference to other sections</b>	See section 8 for personal protective equipment.

**SECTION 7. HANDLING & STORAGE**

<b>7.1 Precautions for safe handling</b>	Handle in accordance with good hygiene and safety practice. Provide exhaust ventilation close to floor level. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Open drum carefully as content may be under pressure. Use only in well-ventilated areas. Vapours may form explosive mixtures with air. Keep product and empty container away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge. Do not use sparking tools. Use only explosion-proof equipment.
<b>7.2 Conditions for safe storage</b>	Store in original container. Never fill containers more than 80 % because aerial oxygen is necessary for stabilising. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep in an area equipped with solvent resistant flooring. Do not store together with oxidizing and self-igniting products.
<b>7.3. Specific end use(s)</b>	Sealant

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>8.1 Controls parameters</b>	Occupational Exposure Limits (WELs) have been assigned (EH40/2011). STEL (15 min):            100   ppm   416   mg/m <sup>3</sup> Data for methyl methacrylate LTEL (8 hour                50   ppm   208   mg/m <sup>3</sup> Data for methyl methacrylate
<b>8.2 Exposure controls</b>	
<b>Engineering controls</b>	Provide adequate ventilation (e.g. local exhaust ventilation). Avoid the build-up of electrostatic charges.
<b>Personal protection</b>	Observe normal standards for handling chemicals. Do not eat, drink or smoke in the working area Wash hands before breaks and after work. Those with a history of sensitisation should take appropriate protective measures Wear personal protective equipment appropriate to the task (see below)
<b>Eye protection</b>	Safety goggles (i.e. EN 166 approved)
<b>Skin protection</b>	Solvent-proof gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
<b>Respiratory protection</b>	If ventilation is insufficient, wear a NIOSH/OSHA respirator
<b>Other protection</b>	Flame retardant antistatic protective clothing.



**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Basic physical and chemical properties**

Physical form	Liquid
Colour	Colourless
Odour	acrylic-like
Odour threshold	0.05 ppm
pH	Not determined
Boiling pt / range	100.3 °C
Melting pt / range	-48 °C
Flash point	11.5 °C
Flammability	Not applicable
Thermal decomposition	Not applicable
Evaporation rate	Not applicable
Explosion limits	Lower: 2.1 vol%; Upper: 12.5 vol%
Auto-ignition temperature	Not determined
Decomposition temp.	Not applicable
Specific gravity	1.36 g/cm <sup>3</sup> @ 25°C
Vapour pressure	38.7 mbar @ 20 °C
Vapour density	Not applicable
Viscosity	490 - 700 mPa.s @ 25°C
Water solubility	insoluble
Explosive properties	Not determined
Oxidising properties	Not determined
Partition coeff. Log <sub>Oct/water</sub>	1.38
9.2 Other information	None known

**SECTION 10. STABILITY AND REACTIVITY**

10.1 Reactivity	Hazardous polymerisation will not occur
10.2 Chemical stability	Stable under normal conditions of handling.
10.3 Hazardous reactions	Polymerisation occurs when exposed to white light, ultraviolet light or heat. Polymerisation is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
10.4 Conditions to avoid	None known.
10.5 Incompatible material	Avoid radical-forming starting agents, peroxides and reactive metals. Amines. Heavy metal compounds. Oxidizing agents. Reducing agents.
10.6 Hazardous decomposition products	Not determined

Product Name:

# DURA-WALK MEMBRANE

SDS Reference

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 information on toxicological effects

<b>Acute toxicity</b>	LD <sub>50</sub> rat (oral)	>5000	mg/kg	Data for methyl methacrylate
	LD <sub>50</sub> rabbit (derm)	>5000	mg/kg	Data for methyl methacrylate
	LC <sub>50</sub> rat (inhal)	4632	mg/l	Data for methyl methacrylate
<b>Dermal compatibility</b>	No data available.			
<b>Mucous membrane compatibility</b>	No data available.			
<b>Further information</b>	Skin contact sensitization is possible.			

## SECTION 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	LC <sub>50</sub> Pimephales promelas	243 – 275	mg/l	96h, Data for methyl methacrylate
	EC <sub>50</sub> Daphnia magna	69	mg/l	48h Data for methyl methacrylate
	LC <sub>50</sub> Lepomis macrochirus	0.97	mg/l	96h, Data decanedioic acid ester
<b>12.2 Degradability</b>	Partially biodegradable.			
<b>12.3 Bioaccumutive potential</b>	Not determined			
<b>12.4 Mobility in soil</b>	Not determined			
<b>12.5 PBT/vPvB assessment</b>	Not determined			
<b>12.6 Other adverse effects</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once. Water endangering class = 1 (self classification) slightly water endangering			

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment measures

<b>Advice on disposal</b>	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.
---------------------------	---

## SECTION 14. TRANSPORT INFORMATION

<b>14.1 United Nations number</b> ADR, IMDG, IATA	UN 1866
<b>14.2 Proper shipping name</b> ADR, IMDG, IATA	RESIN SOLUTION
<b>14.3 Transport class(s)</b> ADR, IMDG, IATA	3
<b>14.4 Packing group</b> ADR, IMDG, IATA	II
<b>14.5 Environmental hazards</b> ADR, IMDG, IATA	The product should not be marked as a marine pollutant
<b>14.6 Special procedures</b> ADR, IMDG, IATA	None known.
<b>14.7 Transport in bulk</b> ADR, IMDG, IATA	Not applicable



**Product Name:**

**DURA-WALK MEMBRANE**

**SDS Reference**

## **SECTION 15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations**

The product is classified in accordance with EC Regulation 1272/2008 (CLP), Other regulatory information and provisions are not applicable for this product.

**15.2 Chemical safety assessment**

Not applicable

## **SECTION 16. OTHER INFORMATION**

**Further information**

**Hazard statements referred to in sections 2-15**

H225: Highly flammable liquid and vapour  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Sources of data**

Other suppliers' safety data sheets, EH40(2011)

**Date of issue**

24-02-2016

It is your own responsibility, to examine and confirm if this material meets or suits any regulation or restriction in your country or of your local authority. To the best of our knowledge, the information contained herein is correct and accurate. However, neither JSR nor any of its subsidiaries assumes any liability whatsoever for the correctness or accuracy of the information contained herein. The precautionary items were based on ordinary handling. In case of special handling, safety measures in compliance with the application and usage shall be executed. Final determination of safety and suitability of any material is the sole responsibility of the keeper and user. All materials may present unknown hazards, and therefore should be handled with adequate caution. Although certain hazards are described herein, they may not be the only hazards in relation to the products.

**Data sheet prepared by Rising HS&E Services.**