SAFETY DATA SHEET
(Conforming to 1907/2006/EC)

Product Name:	**DURA-WALK TILE AND METAL PRIMER**	**SDS Reference**	
Version No. 1	**Initial issue date** August 24th 2016	**Revision date**	

SECTION 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name Dura-Walk Tile and Metal Primer

1.2 Relevant Use(s)/misuse(s) Primer

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

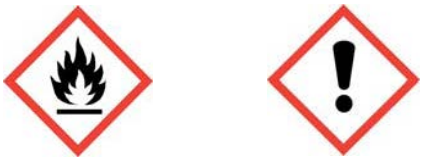
2.1.2 Additional information

See section 16 for full text of Hazard Statements

2.2 LABELLING ELEMENTS

2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

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.

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.
Supplemental information		CONTAINS METHYL METHACRYLATE; ETHYLENGLYCOL DIMETHACRYLATE. MAY PRODUCE AN ALLERGIC REACTION
2.3 OTHER HAZARDS		THE PREPARATION CONTAINS A SUBSTANCE THAT HAS A WORKPLACE EXPOSURE LIMIT (WEL)

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation A MIXTURE OF ORGANIC SUBSTANCES

Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
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	50-75%
ETHYLENGLYCOL DIMETHACRYLATE (REACH Reg. No. 01-2119965172-38-XXXX)	97-90-5	202-617-2	Skin Sens. 1 H317; STOT SE3 H335	1-2.5%
2-HYDROXYETHYL METHACRYLATE (REACH Reg. No 01-2119490169-29-XXXX)	868-77-9	212-782-2	Skin Irrit. 2 H315; Skin Sens. 1 H317; Eye Irrit. 2 H319	<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

6.1 Personal precautions	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!
6.2 Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
6.3 Methods and materials for cleaning up	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
6.4 Reference to other sections	See section 8 for personal protective equipment.

SECTION 7. HANDLING & STORAGE

7.1 Precautions for safe handling	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.
7.2 Conditions for safe storage	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.
7.3. Specific end use(s)	Primer

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters

Occupational Exposure Limits (WELs) have been assigned (EH40/2011).

STEL (15 min):	100	ppm	416	mg/m^3	Data for methyl methacrylate
LTEL (8 hour	50	ppm	208	mg/m^3	Data for methyl methacrylate

8.2 Exposure controls

Engineering controls	Provide adequate ventilation (e.g. local exhaust ventilation). Avoid the build-up of electrostatic charges.
Personal protection	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)
Eye protection	Safety goggles (i.e. EN 166 approved)
Skin protection	Solvent-proof gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	If ventilation is insufficient, wear a NIOSH/OSHA respirator
Other protection	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	101	ºC
Melting pt / range	-48	ºC
Flash point	12	°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	0.99 g/cm³ @ 25°C	
Vapour pressure	38.7 mbar @ 20 ºC	
Vapour density	Not applicable	
Viscosity	100 - 130 mPa.s @ 25°C	
Water solubility	insoluble	
Explosive properties	Not determined	
Oxidising properties	Not determined	
Partition coeff. $Log_{Oct/water}$	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

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

Acute toxicity	LD_{50} rat (oral)	>5000	mg/kg	Data for methyl methacrylate
	LD_{50} rabbit (derm)	>5000	mg/kg	Data for methyl methacrylate
	LC_{50} rat (inhal)	29.8	mg/l	Data for methyl methacrylate
	LD_{50} rat (oral)	>5000	mg/kg	Data for ethylenglycol dimethacrylate

Dermal compatibility No data available.

Mucous membrane compatibility No data available.

Further information Skin contact sensitization is possible.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC_{50}	Pimephales promelas	243 – 275	mg/l	96h, Data for methyl methacrylate
	EC_{50}	Daphnia magna	69	mg/l	48h Data for methyl methacrylate
	LC_{50}	Pimephales promelas	213-242	mg/l	96h, 2-hydroxyethyl methacrylate

12.2 Degradability Partially biodegradable.

12.3 Bioaccumutive potential Not determined for product.
Log Pow: 0.7 (methyl methacrylate); 0.47 (2-hydroxyethyl methacrylate)

12.4 Mobility in soil Not determined

12.5 PBT/vPvB assessment Not determined

12.6 Other adverse effects 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

Advice on disposal 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

14.1 United Nations number ADR, IMDG, IATA UN 1866

14.2 Proper shipping name ADR, IMDG, IATA RESIN SOLUTION

14.3 Transport class(s) ADR, IMDG, IATA 3

14.4 Packing group ADR, IMDG, IATA II

14.5 Environmental hazards ADR, IMDG, IATA The product should not be marked as a marine pollutant

14.6 Special procedures ADR, IMDG, IATA None known.

14.7 Transport in bulk ADR, IMDG, IATA Not applicable

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
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Sources of data	Other suppliers' safety data sheets, EH40(2011)
Date of issue	24-08-2016

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.