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

Product Name:	**DURA-WALK TOPCOAT COLOURED**	**SDS Reference**	
Version No. 1	**Initial issue date** February 24th 2016	**Revision date**	

SECTION 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name Dura-Walk Topcoat Coloured

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

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)

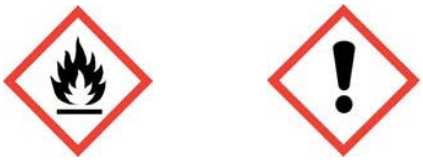
Flam Liq. 2 H225
Skin Irrit. 2 H315
Skin Sen. 1 H317
STOT SE 3 H335

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.

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.

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation AN ACRYLATE MIXTURE

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	25-50%
2-ETHYLHEXYL ACRYLATE (REACH Reg. No. 01-2119453158-37-XXXX)	103-11-7	203-080-7	Skin Irrit. 2, H315; Skin Sens. 1 H317; STOT SE3 H335	10-25%

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)	Topcoat

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	Pigmented
Odour	acrylic-like
Odour threshold	0.05 ppm
pH	Not determined
Boiling pt / range	100.3 ºC
Melting pt / range	-48 ºC
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	1.10 g/cm³ @ 25°C
Vapour pressure	38.7 mbar @ 20 ºC
Vapour density	Not applicable
Viscosity	190 - 270 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)	4632	mg/l	Data for methyl methacrylate
	LD_{50} rat (oral)	4435	mg/kg	Data for 2-ethylhexyl acrylate
	LD_{50} rabbit (derm)	7522	mg/kg	Data for 2-ethylhexyl acrylate

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}	Lepomis macrochirus	0.97	mg/l	96h, Data decanedioic acid ester
	EC_{50}	Algae	44	mg/l	96h, Data for 2-ethylhexyl acrylate
	EC_{50}	Daphnia magna	17.5	mg/l	48h, Data for 2-ethylhexyl acrylate

12.2 Degradability Partially biodegradable.

12.3 Bioaccumutive potential Not determined

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)

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
H335: May cause respiratory irritation.

Sources of data	Other suppliers' safety data sheets, EH40(2011)
Date of issue	24-02-2016

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Data sheet prepared by Rising HS&E Services.