



since 1895

SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

Product Name:

GARLATHANE 400

SDS Reference

GT400

Version No. 2

Initial issue date

July 8th 2014

Revision date

01-06-2015

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name

Garlathane 400

1.2 Relevant Use(s)/misuse(s)

Low slope Roof Waterproofing

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

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

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

Flam Liq. 3 H226
Acute Tox. 4 H312
Acute Tox. 4 H332
Skin Irrit. 2 H315
Skin Sens. 1 H317
Resp. Sens. 1 H334
Repr. 1B H360FD
Aquatic Chronic 3 H412

2.1.2 Additional information

See section 16 for full text of H statements

2.2 LABELLING ELEMENTS

Pictogram(s):



Signal word

DANGER

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Hazard statement(s)	H226 FLAMMABLE LIQUID AND VAPOUR. H312 HARMFUL IN CONTACT WITH SKIN H315 CAUSES SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION H332 HARMFUL IF INHALED. H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
Precautionary statement(s)	H360FD MAY DAMAGE FERTILITY OR THE UNBORN CHILD H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. — NO SMOKING. P281 USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. P302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P304+341 IF INHALED: IF BREATHING IS DIFFICULT, REMOVE VICTIM 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 SUBSTANCES THAT HAVE A WORKPLACE EXPOSURE LIMIT (WEL)

3. COMPOSITION / INFORMATION ON INGREDIENTS**Chemical Characterisation**

Mixture of organic substances

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
XYLENE	1330-20-7	215-535-7	CLP: Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25-50%
N-BUTYL ACETATE	123-86-4	204-658-1	CLP: Flam. Liq. 3, H226; STOT SE 3, H336	2.5-5.0%
1,6-HEXANEDIYL-BIS(2-(2-(1-ETHYLPENTYL)-3-OXAZOLIDINYL)ETHYL)CARBAMATE	140921-24-0	411-700-4	CLP: Skin Sens. 1, H317	2.5-5.0%
DIBUTYLTIN DILAURATE	77-58-7	201-039-8	CLP: Acute Tox. 3, H301; Muta. 2, H341; Repr. 1A, H360; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤ 2.5%
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE	4098-71-9	223-861-6	CLP: Acute Tox. 3, H331; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2; H319; Skin Sens. 1, H317; STOT SE 3, H335	≤ 2.5%

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	Immediately 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.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	To suit local surroundings (e.g. carbon dioxide, foam or chemical powder). Do not use strong water jet.
5.2 Special hazards	Avoid run-off water entering the drains (e.g. use barriers)
5.3 Advice for fire fighters	Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions	Adhere to personal protective measures.
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.

7. HANDLING & STORAGE

7.1 Precautions for safe handling	Handle in accordance with good hygiene and safety practice.
7.2 Conditions for safe storage	Keep containers tightly closed and in cool, dry, well-ventilated areas.
7.3. Specific end use(s)	Low slope Roof Waterproofing

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters	Occupational Exposure Limits (WELs) have been assigned (EH40/2011).		
	STEL (10 min):	100 ppm	441 mg/m ³ Data for xylene
	LTEL (8 hour TWA):	50 ppm	220 mg/m ³ Data for xylene
	STEL (10 min):	200 ppm	966 mg/m ³ Data for butyl acetate
	LTEL (8 hour TWA):	150 ppm	724 mg/m ³ Data for butyl acetate
	STEL (10 min):	ppm	0.2 mg/m ³ Data for dibutyltin dilaurate
	LTEL (8 hour TWA):	ppm	0.1 mg/m ³ Data for dibutyltin dilaurate
	STEL (10 min):	ppm	0.07 mg/m ³ Data for 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
	LTEL (8 hour TWA):	ppm	0.02 Data for 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
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	Suitable 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	Protective overall		

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

Physical form	Liquid
Colour	Various
Odour	Characteristic
Odour threshold	Not determined
pH	Not determined
Boiling pt / range	124 °C
Melting pt / range	Not determined °C
Flash point	27 °C

9. PHYSICAL AND CHEMICAL PROPERTIES

Flammability	Not applicable
Thermal decomposition	Not applicable
Evaporation rate	Not applicable
Explosion limits	Lower: 1.1 vol%; Upper: 7.0 vol%
Auto-ignition temperature	Product is not selfigniting.
Decomposition temp.	Not applicable
Specific gravity	1.14 g/cm ³
Vapour pressure	6.7 hPa @ 20 °C
Vapour density	Not applicable
Viscosity	Kinematic: >90 s (ISO 6mm) @ 20 °C
Water solubility	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined
Partition coeff. Log_{Oct/water}	Not determined
9.2 Other information	Ignition temperature: 370 °C; Solvent content: VOC (EC): 495 g/l

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	Formation of explosive air/vapour mixtures is possible
10.4 Conditions to avoid	None known.
10.5 Incompatible material	Strong oxidising agents
10.6 Hazardous decomposition products	Not determined

11. TOXICOLOGICAL INFORMATION**11.1 information on toxicological effects**

Acute toxicity	LD ₅₀ rat (oral)	4300 mg/kg	Data for xylene
	LD ₅₀ rabbit (derm)	2000 mg/kg	Data for xylene
	LD ₅₀ rat (oral)	175 mg/kg	Data for dibutyltin dilaurate
Dermal compatibility	No data available. Probable skin irritant.		
Mucous membrane compatibility	No data available.		
Further information	May cause sensitisation in contact with skin and if inhaled		

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12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC ₅₀ Aquatic organisms	No data available
12.2 Degradability	Not determined	
12.3 Bioaccumulative 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.	

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.

14. TRANSPORT INFORMATION

14.1 United Nations number ADR, IMDG, IATA	UN1866
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	III
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



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

16. OTHER INFORMATION**Further information****Hazard statements referred to in sections 2-15**

H226 Flammable liquid and vapour.
H301: Toxic if swallowed.
H312 Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341: Suspected of causing genetic defects.
H360: May damage fertility or the unborn child
H400: Very toxic to aquatic life.
H410: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Sources of data

Other suppliers' safety data sheets, EH40(2011)

Date of issue

01-06-2015

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