



SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

Product Name:		GARLATHANE 420	SDS Reference	GT420	
Version No.	2	Initial issue date	July 8 th 2014	Revision date	01-06-2015

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name	Garlathane 420		
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
Asp. Tox. 1 H304
Skin Sen. 1 H317
Resp. Sen. 1 H334
STOT SE 3 H335
Aquatic Chronic 3 H412

2.1.2 Additional information

See section 16 for full text of H statements and R phrases.

2.2 LABELLING ELEMENTS

Pictogram(s):



Signal word

DANGER

Hazard statement(s)

H226 FLAMMABLE LIQUID AND VAPOUR.
H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED
H335 MAY CAUSE RESPIRATORY IRRITATION.
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Product Name:**GARLATHANE 420****SDS Reference** GT420**Precautionary statement(s)**

- P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. — NO SMOKING.
- P281 USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.
- P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.
- 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.
- P501 DISPOSE OF CONTENTS/CONTAINER TO AUTHORISED SITE.

THE PREPARATION CONTAINS SUBSTANCES THAT HAVE A WORKPLACE EXPOSURE LIMIT (WEL)

2.3 OTHER HAZARDS**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	2.5-5.0%
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.	64742-95-6	265-199-0	CLP: Asp. Tox. 1, H304	10-25%
1,2,4-TRIMETHYLBENZENE	95-63-6	202-436-9	CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332; STOT SE 3, H335;; Aquatic Chronic 2, H411	2.5-5.0%
1,6-HEXANEDIYL-BIS(2-(2-(1-ETHYLPENTYL)-3-OXAZOLIDINYL)ETHYL)CARBAMAT	140921-24-0	411-700-4	; CLP: Skin Sens. 1, H317	2.5-5.0%
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6	203-603-9	CLP: Flam. Liq. 3, H226; Eye Irrit. 2, H319;	2.5-5.0%
MESITYLENE	108-67-8	203-604-4	CLP: Flam. Liq. 3, H226; STOT SE 3, H335; Aquatic Chronic 2, H411	2.5-5.0%
CUMENE	98-82-8	202-704-5	CLP: Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335; Aquatic Chronic 2, H411	≤2.5%
PROPYLBENZENE	103-65-1	203-132-9	CLP: Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335; Aquatic Chronic 2, H411	≤2.5%
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE, OLIGOMERS	53880-05-0	Not assigned	CLP Skin Sens. 1, H317; STOT SE 3, H335	≤2.5%

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3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE	4098-71-9	223-861-6	CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Acute Tox. 3, H331; Resp. Sens. 1, H334; STOT SE 3, H335; Aquatic Chronic 2, H411	≤2.5%
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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 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
	LTEL (8 hour TWA):	25	ppm	125	mg/m ³ Data for 1,2,4-trimethylbenzene
	LTEL (8 hour TWA):	50	ppm	274	mg/m ³ Data for 2-methoxy-1-methylethyl acetate
	STEL (10 min):	100	ppm	548	mg/m ³ Data for 2-methoxy-1-methylethyl acetate
	LTEL (8 hour TWA):		ppm	0.02	mg/m ³ Data for 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
	STEL (10 min):		ppm	0.07	mg/m ³ Data for 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
	LTEL (8 hour TWA):	25	ppm	125	mg/m ³ Data for mesitylene

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	137 °C
Melting pt / range	Not determined °C

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point	30 °C
Flammability	Not applicable
Thermal decomposition	Not applicable
Evaporation rate	Not applicable
Explosion limits	Lower: 0.7 vol%; Upper: 7.5 vol%
Auto-ignition temperature	Product is not selfigniting.
Decomposition temp.	Not applicable
Specific gravity	1.15 g/cm ³
Vapour pressure	5 hPa @ 20 °C
Vapour density	Not applicable
Viscosity	>90s (kinematic, ISO 6mm)
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: 315 °C; solvent content: VOC 445.74 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)	>6800 mg/kg	Data for Solvent naphtha
	LD ₅₀ rabbit (derm)	> 3400 mg/kg	Data for Solvent naphtha
	LC ₅₀ rat (inhal)	>10.2 mg/l	Data for Solvent naphtha (4hrs)
	LD ₅₀ rat (oral)	5000 mg/kg	Data for 1,2,4-trimethylbenzene
	LD ₅₀ rat (oral)	6040 mg/kg	Data for propylbenzene
	Dermal compatibility	No data available.	
Mucous membrane compatibility	No data available.		
Further information	Respiratory and skin contact sensitization is possible.		

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12. ECOLOGICAL INFORMATION

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

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.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H331: Toxic if inhaled.
H332 Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation. .
H411: 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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