



since 1895

SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

Product Name:

SEAL-TITE PART B

SDS Reference

Version No. 1

Issue date

August 14th 2015

Revision date

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name	Seal-Tite Part B (Product No. 2143-B)		
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	

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

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

Skin Irrit. 2 H315
Skin Sens.1 H317
Eye Irrit. 2 H319
Acute Tox. 2 H330
Resp. Sens. 1 H334
STOT SE 3 H335
Carc. 1 H351
STOT RE 2 H373

2.1.2 Additional information

See section 16 for full text of H 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)	H315 CAUSES SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION H319 CAUSES SERIOUS EYE IRRITATION. H330 FATAL IF INHALED H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. H335 MAY CAUSE RESPIRATORY IRRITATION. H351 SUSPECTED OF CAUSING CANCER H373 MAY CAUSE DAMAGE TO RESPIRATORY SYSTEM THROUGH PROLONGED OR REPEATED EXPOSURE.
Precautionary statement(s)	P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P285 IN CASE OF INADEQUATE VENTILATION WEAR RESPIRATORY PROTECTION. P302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P04+340 IF INHALED: REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P305+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P309+311 IF EXPOSED OR IF YOU FEEL UNWELL: CALL A POISON CENTRE OR DOCTOR/PHYSICIAN

2.3 OTHER HAZARDS

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

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

MIXTURE

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
DIPHENYLMETHANE DIISOCYANATE	9016-87-9	Not assigned	Skin Irrit. 2 H315; Eye Irrit. 2 H319; Acute Tox. 2 H330; Resp. Sens. 1 H334; STOT SE 3 H335; Carc. 2 H351; STOT RE 2 H373	25-40%
4,4' METHYLENEDIPHENYL ISOCTANATE (MDI)	101-68-8	202-966-0	Skin Irrit. 2 H315; Skin Sens. 1 H317; Eye Irrit. 2 H319; Acute Tox. 4 H332; Resp. Sens. 1 H334; STOT SE 3 H335; Carc. 2 H351; STOT RE 2 H373	10-30%

4. FIRST AID MEASURES**4.1 Description of measures****Inhalation**

Remove casualty to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel; seek medical advice

Skin contact

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

4. FIRST AID MEASURES

Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary, seek medical advice (e.g. an 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	May cause respiratory sensitization or asthma-like symptoms.
4.3 Immediate/special treatment	If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	To suit local surroundings (e.g. foam, carbon dioxide, dry powder, water). Do not use direct water jet.
5.2 Special hazards	Combustion products may include and are not limited to: Nitrogen oxides. Isocyanates. Hydrogen cyanide. Carbon monoxide. Carbon dioxide.
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. Avoid prolonged repeated contact with skin. Use with adequate ventilation.
7.2 Conditions for safe storage	Keep containers tightly closed and in cool, dry, well-ventilated areas. Shelf Life: 6 Months at a storage temperature of 15 - 25°C.
7.3. Specific end use(s)	Sealant.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters	Workplace Exposure Limits (WELs) have been assigned by the HSE. (EH40/2011)			
	LTEL (8 hour TWA):	ppm	0.02	mg/m ³ Isocyanates as -NCO
	STEL (15 min):	ppm	0.07	mg/m ³ Isocyanates as -NCO
8.2 Exposure controls				
Engineering controls	Provide adequate ventilation (e.g. local exhaust ventilation).			

Personal protection	Observe normal standards for handling chemicals. Do not eat, drink or smoke in the working area Those with a history of sensitisation should take appropriate protective measures Wash hands before breaks and after work. 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	Paste.		
Colour	Black		
Odour	Mild mint-like		
Odour threshold	Not determined		
pH	Not determined		
Boiling pt / range	Not determined	°C	
Melting pt / range	Not determined	°C	
Flash point	Not applicable		
Flammability	Not applicable		
Thermal decomposition	Not applicable		
Evaporation rate	Not determined		
Explosion limits	Not determined	Lower:	Upper:
Auto-ignition temperature	Not determined		
Decomposition temp.	Not applicable		
Density	9.01 lbs/gal.		
Vapour pressure	< 1		
Vapour density	>1		
Viscosity	Not determined		
Water solubility	Insoluble		
Explosive properties	Not determined		
Oxidising properties	Not determined		
Partition coeff. Log_{Oct/water}	Not determined		
9.2 Other information	Volatile Organic Compound (VOC): 15.8 g/l; % volatiles: 1.46		

10. STABILITY AND REACTIVITY

10.1 Reactivity	The product polymerizes when in contact with moisture.
10.2 Chemical stability	Stable under normal conditions of handling.
10.3 Hazardous reactions	Elevated temperatures can cause hazardous polymerization. Polymerization can be catalysed by strong bases, water
10.4 Conditions to avoid	Avoid moisture. Material reacts slowly with water, releasing carbon dioxide which can cause pressure buildup and rupture of closed containers.
10.5 Incompatible material	Diisocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact;
10.6 Hazardous decomposition products	Thermal decomposition may produce toxic fumes of CO and/or CO2..

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

Acute toxicity	LD ₅₀ rabbit (derm)	>2000	mg/kg	Data for Diphenylmethane Diisocyanate
	LC ₅₀ rat (inhal)	0.5	mg/l	Data for Diphenylmethane Diisocyanate
	LD ₅₀ rat (oral)	9200	mg/kg	Data for 4,4' Methylene-diphenyl Isocyanate
	LC ₅₀ rat (inhal)	>2.2	mg/l	Data for 4,4' Methylene-diphenyl Isocyanate
Dermal compatibility	No data available.			
Mucous membrane compatibility	No data available.			
Further information	Skin contact may cause an allergic skin reaction. May cause allergic respiratory reactions			

12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC ₅₀ Aquatic organisms	mg/l	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.
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Product Name:

SEAL-TITE PART B

SDS Reference

14. TRANSPORT INFORMATION

14.1 United Nations number ADR, IMDG, IATA	Not classified
14.2 Proper shipping name ADR, IMDG, IATA	Not classified
14.3 Transport class(s) ADR, IMDG, IATA	Not classified
14.4 Packing group ADR, IMDG, IATA	Not classified
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

The SDS has been prepared in accordance with EC Regulation 1272/2008 (CLP)

Hazard statements referred to in sections 2-15

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H330: Fatal if inhaled.
H332: Harmful if inhaled
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer
H373: May cause damage to respiratory system through prolonged or repeated exposure.

Sources of data Other suppliers' safety data sheets

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Data sheet prepared by Rising HS&E Services.