



LS179 Double/Bubble MSDS Part A

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Revision: 20.06.2005

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY INFORMATION :

Trade Name : Hardman Double/Bubble Part A

Intended use: 2-Component epoxy adhesive

Supplier:

Beal UK Ltd

Sterling Works, Texas Street

Tingley, Leeds, LS27 0HG

Tel : (0113) 253 8888

Fax : (0113) 253 0223

Web : www.beal.org.uk

Emergency information:

24 Hours Emergency Tel: (973) 751-3000

2. HAZARDS IDENTIFICATION

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Declaration of ingredients according to (EC) No 1907/2006:

Hazardous components CAS-No.	content	Classification
Bisphenol-A epichlorhydrin resin MW <= 700 25068-38-6	< 25 %	Xi - Irritant; R36/38 R43 N - Dangerous for the environment; R51, R53
RP Bisphenol F-epichlorhydrin resin, MW<=700 28064-14-4	50 - 100 %	% Xi - Irritant; R36/38, R43 N - Dangerous for the environment; R51/53
1,3-Propanediol, 2-(hydroxymethyl)-2- methyl-, polymer with 2- (chloromethyl)oxirane 68460-21-9	< 25 %	% Xi - Irritant; R36/38, R43 R52/53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap. Seek medical advice.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, foam, powder

Special protection equipment for firefighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid skin and eye contact.

Environmental precautions: Do not let product enter drains.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Avoid skin and eye contact. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Storage: Store in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Use only in well-ventilated areas.

Hand protection: The use of chemical resistant gloves are recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection: Wear protective glasses

Skin protection: Wear suitable protective clothing.

General protection and hygiene measures: Good industrial hygiene practices should be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

General characteristics:

Appearance liquid colourless Odor: Mild

Phys./chem. properties:

Flash point > 100,00 °C (> 212 °F)

Density 1,2000 g/cm³

VOC content < 3,00 % Combined A/B
(1999/13/EC)

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Oral toxicity: May cause irritation to the digestive tract.

Inhalative toxicity: May cause irritation to respiratory system.

Skin irritation: It is irritating and sensitising to the skin

Eye irritation: Irritating to eyes.

12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains / surface water / ground water. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product disposal: Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

Waste code: waste adhesives and sealants containing organic solvents and other dangerous substances

Disposal of uncleaned packages: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Road transport ADR:

Class: 9
Packaging group: III
Classification code: M6
Hazard ident. number: 90
UN no.: 3082
Label: 9
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (epoxy resin)

Railroad transport RID:

Class: 9
Packaging group: III
Classification code: M6
Hazard ident. number: 90
UN no.: 3082
Label: 9
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (epoxy resin)

Inland water transport ADN:

Class: 9
Packaging group: III
Classification code: M6
Hazard ident. number:
UN no.: 3082
Label: 9
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (epoxy resin)

Marine transport IMDG:

Class: 9
Packaging group: III
UN no.: 3082
Label: 9
EmS: F-A ,S-F
Seawater pollutant: Marine pollutant
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (epoxy resin)

Air transport IATA:

Class: 9
Packaging group: III
Packaging instructions (passenger) 914
Packaging instructions (cargo) 914
UN no.: 3082
Label: 9
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)

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15. REGULATIONS - CLASSIFICATION AND IDENTIFICATION

Indication of danger: N - Dangerous for the environment Xi – Irritant



Contains Bisphenol-A epichlorhydrin resin MW <= 700, RP Bisphenol F-epichlorohydrin resin, MW<=700, 1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer with 2-(chloromethyl)oxirane

Risk phrases:

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water and soap.

S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional labeling:

Contains epoxy constituents. See information supplied by the manufacturer.

16. OTHER INFORMATION

The labelling of the product is indicated in Section 15.

The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51 Toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

Directives 199/45/EC and 91/155/EEC have been considered when compiling this SDS. The information is provided for health & safety assessment by an industrial user. Reference should be made to any relevant local or national health, safety, and environmental legislation.

FURTHER INFORMATION:

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, Beal Uk Ltd makes no representations as to the completeness of accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Royal Adhesives & Sealants LLC or any of its worldwide distributors be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.



LS179 Double/Bubble MSDS Part B

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Revision: 20.06.2005

2. IDENTIFICATION OF THE SUBSTANCE AND COMPANY INFORMATION :

Trade Name : Hardman Double/Bubble Part B

Intended use: 2-Component epoxy adhesive

Supplier:

Beal UK Ltd

Sterling Works, Texas Street

Tingley, Leeds, LS27 0HG

Tel : (0113) 253 8888

Fax : (0113) 253 0223

Web : www.beal.org.uk

Emergency information:

24 Hours Emergency Tel: (973) 751-3000

2. HAZARDS IDENTIFICATION

R36/37 Irritating to eyes and respiratory system

3. COMPOSITION / INFORMATION ON INGREDIENTS

Declaration of ingredients according to (EC) No 1907/2006:

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
2,4,6- Tris(dimethylaminomethyl)phenol 90-72-2	202-013- 9	> 5 - < 20 %	Xn - Harmful; R22 Xi - Irritant; R36/38
Trifunctional mercaptan resin~		> 50 %	Xi - Irritant; R36/37

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap. Seek medical advice.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, foam, powder

Special protection equipment for firefighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid skin and eye contact.

Environmental precautions: Do not let product enter drains.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Avoid skin and eye contact. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. **Storage:** Store in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Use only in well-ventilated areas.

Hand protection: The use of chemical resistant gloves are recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection: Wear protective glasses

Skin protection: Wear suitable protective clothing.

General protection and hygiene measures: Good industrial hygiene practices should be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

General characteristics: Appearance liquid colourless Odor: Mild

Phys./chem. properties:

Flash point > 100,00 °C (> 212 °F)

Density 1,1300 g/cm³

VOC content < 3,00 % Combined A/B
(1999/13/EC)

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Oral toxicity: May cause irritation to the digestive tract. **Inhalative toxicity:** May cause irritation to respiratory system.

Skin irritation: It is irritating and sensitising to the skin **Eye irritation:** Irritating to eyes.

12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains / surface water / ground water.

13. DISPOSAL CONSIDERATIONS

Product disposal: Dispose of in accordance with local and national regulations. Contribution of this product to waste is very insignificant in comparison to article in which it is used

Waste code: waste adhesives and sealants containing organic solvents and other dangerous substances

Disposal of uncleaned packages: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated. Disposal must be made according to regulations.

14. TRANSPORT INFORMATION

General information:

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

15. REGULATIONS - CLASSIFICATION AND IDENTIFICATION

Indication of danger: Xi – Irritant



Risk phrases: R36/37 Irritating to eyes and respiratory system.

Safety phrases: S23 Do not breathe vapour.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S51 Use only in well-ventilated areas.

16. OTHER INFORMATION

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system.

R36/38 Irritating to eyes and skin.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1999/45/EC.

FURTHER INFORMATION:

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, Beal UK Ltd makes no representations as to the completeness of accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Royal Adhesives & Sealants LLC or any of its worldwide distributors be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.