

UNIVERSAL SEALANTS (UK) LIMITED

NUFINS DIVISION

Kingston House, 3 Walton Road, Pattinson North,
Washington, Tyne & Wear. NE38 8QA
Telephone No: 0191 416 8360 Fax No: 0191 415 5966

1. Product Identification

Trade Name: BRICKBOND/BRICK ADHESIVE LOW ODOUR

Description: Epoxy brick bonding adhesive.

2. Composition / Information on Ingredients

Ingredient	CAS Number	Conc. (w/w)	Classification	R. Phrases
BASE COMPONENT				
Bisphenol A epoxy resin	25068-38-6	30-50%	Xi,N	36/38,43,51/53
Alkylglycidylether	68081-84-5	1-7%	Xi,N	36/38,43,51/53
Magnesium Silicate	14807-96-6	40-60%	None	None
Amorphous Silica	7631-86-9	1-7%	None	None
HARDENER COMPONENT				
Mixed Cycloaliphatic amines	N/A	25-50%	Xn	20/21/22,43,51/53,62,63
Benzyl Alcohol	100-51-6	5-15%	Xn	20/22
Magnesium Silicate	14807-96-6	30-50%	None	None
Amorphous Silica	7631-86-9	1-5%	None	None

3. Hazard Identification

Base: May be irritating to the eyes and skin, and may also cause sensitisation by skin contact. The product is toxic to aquatic organisms and has the potential to cause long-term damage to the aquatic environment.

Hardener: Harmful by inhalation, in contact with skin and if swallowed, and may also cause sensitisation by skin contact. The product is harmful to aquatic organisms and has the potential to cause long-term damage to the aquatic environment. There is a possible risk of impaired fertility and a possible risk of harm to the unborn child.

4. First Aid Measures

Inhalation: In case of drowsiness or sickness remove to fresh air, keep patient warm and at rest. If unconscious, turn to the recovery position. Seek medical assistance.

Skin Contact: Promptly remove contaminated clothing and wash the affected area with plenty of soap and water to ensure all traces of product are removed, then rinse thoroughly. Any contaminated clothing must be thoroughly cleaned before re-using. Seek medical advice if irritation persists.

Eye Contact: Flush with copious amounts of clean water for at least 15 minutes, with the eye lids held open. Seek medical attention.

Ingestion: Wash out mouth with water. Keep patient at rest and obtain medical attention. DO NOT INDUCE VOMITING.

5. Fire Fighting Measures

Suitable Extinguisher Media:	Water spray, alcohol-resistant foam, dry powder, carbon dioxide or sand.
Unsuitable Extinguishing Media:	Water jet.
Exposure Hazards:	May give off toxic fumes if heated or involved in a fire, including CO.
Special Protective Equipment:	Full face, positive pressure, self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions:	Wear protective equipment as specified in Section 8. Do not eat, drink or smoke. Avoid contact with skin and eyes. Eliminate all ignition sources.
Environmental Precautions:	Eliminate all ignition sources. Keep people and animals away. Prevent entry into drains, sewers and watercourses. If spillage enters drains leading to sewerage works inform the local water company. If spillage enters rivers or watercourses inform the Environment Agency.
Spillages:	Cordon off area. Absorb/contain spillage using inert absorbent granules, sand or earth. Transfer collected material to heavy-duty plastic/steel drums and keep in a well ventilated place for subsequent safe disposal. See Section 13.

7. Handling and Storage

Handling:	No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Sections 6 and 8 if exposure to product is possible. Wash thoroughly with soap and water before eating, drinking or smoking, and after work
Storage:	Store in original containers in a well ventilated area away from heat, ignition sources or open flame. Do not store near acids.

8. Exposure Controls / Personal Protection

Occupational Exposure Standards:	Benzyl Alcohol: TLV 5ppm (recommended). It is extremely unlikely that the Exposure Limit above would be reached under foreseeable conditions of use. Magnesium Silicate: 8 Hour TWA 1mg/m ³ (respirable) OES. Amorphous Silica: 8 Hour TWA 6mg/m ³ (total inhalable), 2.4mg/m ³ (respirable) OES. While the product contains magnesium silicate and amorphous silica, which have Occupational Exposure Standards assigned to them, these are not present in powder form and do not present an inhalation hazard.
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- Engineering Control Measures:** Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection and may include physical containment and good ventilation.
- Respiratory Protection:** In the unlikely event that the quoted exposure limits are exceeded, an approved respirator fitted with an appropriate gas cartridge (organic substance) should be used. All items must conform to EN149 and should be suitable for the levels of contamination present in the workplace.
- Hand Protection:** Wear Neoprene, Nitrile, PVC or Natural Rubber gloves or gauntlets. These must be manufactured to EN374. The material breakthrough time should be stated by the glove manufacturer, and must be observed at all times.
- Eye Protection:** If contact is likely chemical resistant goggles conforming to BS 2092 should be worn.
- Body Protection:** Wear suitable impervious, chemical resistant overalls.
- Foot Protection:** Wear chemical resistant safety footwear.
- Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance:	Base: Grey paste. Hardener: Thixotropic paste.	Boiling Point: Base	>200 °C
Odour:	Base: Mild Hardener: Ammoniacal	Vapour Pressure @ 20°C:	N/D
pH:	Hardener: Alkaline	Evaporation Rate (Butyl Acetate = 1):	N/A
Flash Point:	>100°C	Flammable Limits in Air:	Upper: N/D Lower: N/D
Solubility:	Immiscible in water	Autoignition Temperature:	N/D
Flammability:	Not Flammable		
Specific Gravity:	1.5 (Mixed)		

10. Stability and Reactivity

- Stability:** Stable under normal conditions (see Section 7).
- Materials to Avoid:** Base: Amines and catalysts
 Hardener: Mineral and organic acids, oxidising agents, reactive metals and sodium or calcium hypochlorite. Slowly corrodes copper, aluminium, zinc and galvanised surfaces. Reacts violently with peroxides possibly creating an explosion. Reaction with acids is accompanied by large heat release and may be

sufficient to cause vigorous boiling, creating a hazard due to splashing or splattering of hot material.

Hazardous Decomposition Products: Ammonia and aldehydes. Oxides of carbon and nitrogen. Nitrogen oxide can react with water vapours to form corrosive nitric acid. Other oxides of nitrogen emitted on decomposition are highly toxic.

11. Toxicological Information

There is no data available on the product itself.
The following data applies to the Epoxy component of the Base material.

Acute Toxicity:

Eye Contact: Irritant.

Skin Contact: Irritant for skin and mucous membranes. May cause sensitisation.

Ingestion: May result in irritation to the gastro intestinal tract.

The following data applies to the Amine component of the Hardener material.

Acute Toxicity:

Eye Contact: Strong irritant effect.

Skin Contact: Irritant effect on skin and mucous membranes. May cause sensitisation.

Ingestion: May result in irritation to the gastro intestinal tract.

Reproductive Effects: There is a possible risk of impaired fertility and a possible risk of harm to the unborn child.

12. Ecological Information

There is no data available on the product itself.
The following data applies to un-mixed material only, as once the base and hardener are combined the harmful constituents will react to form an inert product.

Hazardous for water. Do not allow the product to reach ground water, water bodies or sewage systems. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into soil.

13. Disposal Considerations

Un-reacted materials: Dispose of used containers and un-reacted product as hazardous waste, in accordance with all applicable local and national regulations, and in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. Transport Information

Base:			
UN Number:	3077	Packaging Group:	III
ROAD		AIR	
ADR Class:	9	Air Transport Number:	9
ADR Hazard Number:	90	Packaging Instruction:	911

Ref: HSD/B1LO
Issue No: 4
Date of Issue: 20th February, 2006

SEA

IMDG Class: 9
IMDG Page Number: 9029

Marine Pollutant: P

Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (contains epoxy resin and nonylphenol).

Hardener:

Not classified as hazardous for any mode of transport.

15. Regulatory Information

EU Classification and Labelling Particulars:

Base:

Designated Name: BRICKBOND/BRICK ADHESIVE LOW ODOUR - BASE

Classification: Irritant & Dangerous for the Environment

Indication(s) of Danger: Xi & N

Contains: Epoxy constituents- see information supplied by the manufacturer.

Risk and Safety 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.
S25:	Avoid contact with eyes.
S28:	After contact with skin, wash immediately with plenty of soap and water.
S37/39:	Wear suitable gloves and eye/face protection.
S61:	Avoid release to the environment. Refer to special instructions/ Safety data sheet.

Hardener:

Designated Name: BRICKBOND/BRICK ADHESIVE LOW ODOUR - HARDENER

Classification: Harmful & Dangerous for the Environment

Indication(s) of Danger: Xn & N

Contains: Mixed cycloaliphatic amines incorporating Nonylphenol

Risk and Safety Phrases:

R20/21/22:	Harmful by inhalation, in contact with skin and if swallowed.
R43:	May cause sensitisation by skin contact.
R51/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62:	Possible risk of impaired fertility.
R63:	Possible risk of harm to the unborn child.

Ref: HSD/B1LO
Issue No: 4
Date of Issue: 20th February, 2006

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

UK Guidance Publications: EH40; Occupational Exposure Limits, HSE. Revised annually.
EH26; Occupational Skin Diseases - Health and Safety Precautions, HSE.

UK Legislation: Health and Safety at Work, etc Act, 1974, and relevant Statutory Provisions.
Control of Substances Hazardous to Health Regulations, 1999.
The Manual Handling Operations Regulations, 1992.
The Personal Protective Equipment at Work Regulations, 1992.
Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002 - CHIP 3.

16. Other Information

Full Text of R-Phrases Referred to above:

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R36/38: Irritating to eyes and skin.
R43: May cause sensitisation by skin contact.
R51: Toxic to aquatic organisms.
R53: May cause long-term adverse effects in the aquatic environment.
R62: Possible risk of impaired fertility.
R63: Possible risk of harm to the unborn child.

Training Advice: Do not use unless trained to do so. Refer to the Technical Data Sheet for the product.

Recommended Uses: For professional use only. These products are designed for use as general-purpose single pack repair mortars.

Further Information: This Safety Data Sheet was compiled in accordance with EU Directives 67/548/EEC and 1999/45/EC. Reference was also made to the above legislation and guidance publications.

MSDS First Issued: 15th January 2003

MSDS Revised: 20th February 2006

Changes in this Version: Section 2, 3, 11, 15 and 16 to comply with changes in raw material classification.

Prepared By: F. Stratton

Disclaimer: The information in this document is offered for general health and safety guidance only and is not intended to be a definitive source of advice, nor does it constitute a risk assessment, for which the user is responsible. All

Ref: HSD/B1LO
Issue No: 4
Date of Issue: 20th February, 2006

information provided in this document is believed to be accurate to the best of our knowledge. Users of the products referred to should observe the recommendations, conditions and instructions relating to any relevant product label, usage information, consent or approval in force at the time. Further and more specific information may be obtained from the supplier on request.