Safety Data Sheet according to 1907/2006/EC

Ref: HSD/N10

Issue No: 6 Date of Issue: 25th October, 2011

1. Product and Company Identification

Product Name:			
Intended Uses:	Epoxide resin-based concrete primer/bonding agent.		
Manufacturer:	UNIVERSAL SEALANTS (UK) LIMITED Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear. NE38 8QA, United Kingdom		
Tel: +44 (0) 191 416 15	30 I	Fax: +44 (0) 191 415 4377	Email: info@usluk.com
24 Hour Emergency Te	el: (CHEMTREC +1 703 527 3887	

2. Hazard Identification

Possible Hazards:

Base:	
R36/38:	Irritating to eyes and skin.
R41:	Risk of serious damage to eyes.
R43:	May cause sensitisation by skin contact.
R51/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hardener:

R38:	Irritating to skin.
R41:	Risk of serious damage to eyes.
R43:	May cause sensitisation by skin contact.
R52/53:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Name	CAS No	EINECS	Conc. (w/w)	Classification	R. Phrases
BASE COMPON	IENT				
Bisphenol A/F e	роху				
Resin	40216-08-8	609-794-9	50-60%	Xi,N	36/38,43,51/53
Alkylglycidylethe	er 68081-84-5	268-358-2	5-10%	Xi,N	36/38,43,51/53
Portland Cemen	it 65997-15-1	266-043-4	30-40%	Xi	41,P11
HARDENER CC	MPONENT				
Polyamide	N/A	N/A	40-50%	Xi	38,41,43,52/53
4. First Aid Me	easures				

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.

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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, nitrogen oxide gases and ammonia. Sudden reaction and fire may result if the hardener is mixed with an oxidising agent.
Special Protective Equipment:	In the event of fire wear self-contained breathing apparatus.
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:	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 Pro	otection
Occupational Exposure Standards:	Portland Cement - 8 hour TWA 10mg/m ³ (total inhalable), 4mg/m ³ (respirable) WEL. While the Base material contains Portland cement, which has Workplace Exposure Limits assigned to it, it is not present in powder form and does not present an inhalation hazard.
Engineering Control Measures:	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection and

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	may include physical containment and good ventilation.
Respiratory Protection:	None necessary under foreseeable conditions of use.
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 splashing is likely chemical resistant goggles 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:		Grey paste Clear amb	e Boiling Point per liquid	: (Base) (Hardener)		>200°C 100°C
Odour:	Base: Hardener:	Mild Ammoniad	Vapour Press cal	sure @ 20°C:	: (Base) (Hardener)	N/D As water
pH: (Base) (Hardener)	N/A Alkaline		Evaporation	Rate (Butyl A	Acetate = 1):((Hardener) A	,
Flash Point:	>100°C		Flammable L	imits in Air:	Upper: Lower:	N/D N/D
Solubility: (Base) (Hardene	Insoluble i r)Fully misci		Autoignition	Temperature	e: (Base) (Hardener)	N/D >150°C
Flammability	Not Flamm	ahla				

Flammability: Not Flammable

Specific Gravity: 1.1 (Mixed)

10. Stability and Reactivity

Stability:		Stable under normal conditions (see Section 7).
Materials to Avoid:	Base:	Amines, catalysts, acids and oxidising agents. In contact with inorganic acids - hazardous gases including hydrogen chloride, hydrochloric acid, sulphur dioxide/sulphuric acid.
	Hardener:	Mineral and organic acids, oxidising agents, reducing agents, reactive metals and sodium or calcium hypochlorite. Alkalis (ie Sodium or Potassium Hydroxide). 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.

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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. The cement component is a severe eye irritant. Mild exposures can cause soreness. Gross, or untreated mild, exposures can lead to chemical burning and ulceration of the eye.
Skin Contact:	Irritant for skin and mucous membranes. May cause sensitisation. The cement component may cause irritant contact dermatitis, allergic (chromium) dermatitis, and/or burns. Skin exposure has been linked to allergic (chromium) dermatitis. Allergic dermatitis more commonly arises through contact with cement/water mixtures than dry cement.
Ingestion:	May result in irritation to the gastro intestinal tract.

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

Acute Dermal Toxicity:	LD50, Rabbit = >2000mg/kg (No deaths) (Estimate)
Acute Inhalation Toxicity:	LC50, Rat = No Data
Irritation Effects Data:	No irritation data are known for this material
Chronic/Subchronic Data:	No delayed, subchronic or chronic test data are known.

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.

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14. Transport Information

Base: UN Number: ROAD ADR Class: ADR Hazard No:	3082 Limited quantity in compliance with chapter 3.4 LQ7 less than 5 litres per inner package	Packaging Group: AIR Air Transport Number: Packaging Instruction:	III 9 964
SEA IMDG Class: EMS: Marine Pollutant: Proper Shipping Nan	9 F-A, S-F P ne: Environmentally ha	zardous substance, liquid, NO.S	S. (contains epoxy

Hardener:

Not classified as hazardous for any mode of transport.

resin)

15. Regulatory Information

EU Classification and Labelling Particulars:

Base:

Designated Name: NUCEM PRIMER - BASE

Classification: Irritant & Dangerous for the Environment - Contains epoxy constituents (see information supplied by the manufacturer), and Cement + Chromium (VI). May produce an allergic reaction.

Indication(s) of Danger: Xi & N

Contains: Epoxy constituents- see information supplied by the manufacturer, and Cement + Chromium (VI). May produce an allergic reaction.

Risk and Safety Phrases:

R36/38:	Irritating to eyes and skin.
R41:	Risk of serious damage to eyes.
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.

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Hardener:

Designated Name:	NUCEM PRIMER - HARDENER
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Classification:	Irritant
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Indication(s) of Danger: Xi

Contains: N/A

Risk and Safety Phrases:

	R38: R41: R43: R52/53: S26: S28: S36/37/39:	Irritating to skin. Risk of serious damage to eyes. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap. Wear suitable protective clothing, gloves and eye/face protection.
	S61:	Avoid release to the environment. Refer to special instructions/safety data sheet.
UK Guidand	e Publications:	EH40; Occupational Exposure Limits, HSE. Revised annually. EH26; Occupational Skin Diseases - Health and Safety Precautions, HSE. CONIAC Health Hazard Information Sheet No 26 (Cement). Portland Cement Dust - Criteria Documents for an Occupational Exposure Limit, June 1994 - ISBN 0-7176- 0763-1. COSHH Essentials, HSE
UK Legislat	ion:	 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:

R36: R38:	Irritating to eyes. Irritating to skin.
R41:	Risk of serious damage to eyes.
R43:	May cause sensitisation by skin contact.
R51:	Toxic to aquatic organisms.
R52:	Harmful to aquatic organisms.
R53:	May cause long-term adverse effects in the aquatic environment.
Training Advice:	Do not use unless trained to do so. Refer to the Technical Data Sheet for the product.

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Recommended Uses:	For professional use only. This product is designed for use as a primer/bonding agent for concrete surfaces.
Further Information:	This Safety Data Sheet was compiled in accordance with EU Directives 67/548/EEC and 1999/45/EC. The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark. ESES (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy. Reference was also made to the above legislation and guidance publications.
MSDS First Issued:	14 th September, 1989.
MSDS Revised:	25 th October, 2011.
Changes in this Version:	Section 14 revised to reflect change in IATA classification.
Prepared By:	F. Stratton

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