

MATERIAL SAFETY DATA SHEET FOR: FLOOR SEAL EPOXY

Replaces: NEW. Date of issue: September 2005

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Floor Seal Epoxy
Other Names: Not applicable
Recommended Use: Water based epoxy and hardener used to seal concrete prior to applying adhesive and flooring.

Company: H. B. Fuller
Address: 16-22 Red Gum Drive, Dandenong South VIC 3175
Telephone: (03) 9797 6222
Emergency Telephone No: 1800 033 111

2. HAZARD IDENTIFICATION

Classified as hazardous according to criteria of the NOHSC

HAZARD CATEGORY: Xn Harmful, Xi Irritant

RISK PHRASES: PART A: R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact

RISK PHRASES: PART B: R21/22 Harmful in contact with skin and if swallowed

R43 May cause sensitisation by skin contact.

3. COMPOSITION**Ingredients**

PART A

Chemical Name	CAS #	PERCENT
Bisphenol A epoxy resin	25068-38-6	High
2-ethylhexyl glycidyl ether	2461-15-6	Low
Bisphenol F epoxy resin	9003-36-5	Low
Non hazardous substance		to 100%

PART B

Chemical Name	CAS #	PERCENT
Polyaminoamide	68082-29-1	High
Tris-2,4,6 (Dimethylaminomethyl) Phenol	90-72-2	Low
Ethyleneamine	112-24-3	Low
Non hazardous substance		to 100%

Low <10%

Med. 10-30%

High 30-60%

V High >60%

4. FIRST AID MEASURES

Swallowed:

If swallowed do not induce vomiting. Rinse mouth with water, give glass of water and seek medical attention.

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Eyes:

Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush with water for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

Skin:

Remove contaminated clothing and footwear. Wash skin thoroughly with water. Get medical attention if irritation develops or persists.

Inhaled:

Remove to fresh air. Restore breathing, if necessary. If breathing difficulty, apply artificial respiration and seek medical attention.

First Aid Facilities:

Have eye wash available when exposure may occur

Advice to Doctor

Treat symptomatically

5. FIRE FIGHTING MEASURES

FLASH POINT:	More than 200 deg C
AUTOIGNITION TEMPERATURE:	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
UPPER EXPLOSIVE LIMIT (% in air):	Not established
EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Wear positive pressure, self-contained breathing apparatus and full protective clothing.
SPECIFIC HAZARDS: PART A	The material is stable under normal conditions. Hazardous polymerisation can occur on heating. On decomposition gives off carbon dioxide, carbon monoxide and other gases. Incompatible with alkalis, acids and strong oxidizers.
SPECIFIC HAZARDS: PART B	The material is stable under normal conditions. Hazardous polymerisation can occur on heating. On decomposition gives off carbon dioxide, carbon monoxide, oxides of nitrogen, volatile amines and ammonia. Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:	Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Shut off all possible ignition sources. Wear protective equipment to prevent skin and eye contamination.
CLEAN-UP:	Dike if necessary, contain with absorbent material like sand, soil, vermiculite or any other inert material. Avoid contamination of drains,

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sewerage and waterways. Collect and seal in properly labeled containers for disposal as per local council statutory codes. If contamination of crops, waterways, drains or sewerage has occurred, advise Emergency Services or State Department of Agriculture.

7. HANDLING AND STORAGE

Storage: Store in the closed, original container in a cool ventilated area. Keep containers tightly closed when not in use. Keep away from explosives, food, oxidising agents and organic peroxides. This product is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations. Avoid from physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No value assigned for this specific product by the National Occupational and Safety Commission (Worksafe Australia). However, supplier recommended Hygiene Standard as under;

PART A:
TWA STEL Carcinogen Notices

Material	TWA		STEL		Notices
	ppm	mg/m3	ppm	mg/m3	
Bisphenol A resin	N/E*	N/E*	N/E*	N/E*	-
Bisphenol F resin	N/E*	N/E*	N/E*	N/E*	-
2-ethylhexyl glycidyl ether	N/E*	N/E*	N/E*	N/E*	-

PART B:
TWA STEL Carcinogen Notices

Material	TWA		STEL		Notices
	ppm	mg/m3	ppm	mg/m3	
Polyaminoamide	N/E*	N/E*	N/E*	N/E*	-
Tris-2,4,6 (Dimethy aminomethy) Phenol	N/E*	N/E*	N/E*	N/E*	-
Ethyleneamine	1	6	N/E*	N/E*	-

N/E* - No Exposure Standard has been established for this product.

Engineering Controls: Special ventilation is not normally required due to the low volatility of the product at normal temperature. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standards or where no exposure standard is allocated, as low as reasonably practicable.

Personal Protection: Use overalls, safety shoes, safety goggles, rubber or chemical resistance gloves and respirator if required.

Manufacturing, Packaging & Transport: Avoid skin and eye contact and the inhalation of vapour. Wear overalls, safety goggles and impervious gloves. Available

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information suggests that the gloves made from PVC should be suitable for intermittent contact. However due to variations in glove construction and local conditions, the final assessment should be made by the user. If inhalation risk exists, wear organic vapour respirator meeting requirements of AS/NZS 1715 and 1716. Always wash hands with soap and water before smoking, eating, drinking or using toilet facilities.

Preparations
& use of product:

Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale mist or vapours. After each day's use, wash gloves, safety goggles and all the contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**PART A**

Appearance :	White homogeneous, thixotropic liquid
Solubility :	Miscible in water
Specific Gravity @ 25 deg. C	1.0 - 1.10
Boiling Point :	More than 200 deg. C
Rel.Vapour Density (air=1) :	8
Melting Range :	Not established
Vapour Pressure (25o C) :	Less than 0.01 Pa
Decomposition Temp.(o C) :	More than 200 deg. C
Flash Point (o C) :	More than 200 deg. C (ASTM D 93)
Flammability Limits (%) :	Not established
Ph :	7 (1:1 in water)
Autoignition Temp. (o C) :	Not available
% Volatile by Volume :	Nil

PART B

Appearance :	Light yellow/cream liquid
Solubility :	Miscible in water
Specific Gravity :	0.97 - 1.0 @ 25 DEG. C
Boiling Point :	More than 200 deg. C
Rel.Vapour Density (air=1) :	> 1
Melting Range :	Not established
Vapour Pressure (20o C) :	Less than 0.01 Pa
Decomposition Temp.(o C) :	More than 200 deg. C
Flash Point (o C) :	More than 200 deg. C (ASTM D 93)
Flammability Limits (%) :	Not established
Ph :	Not applicable
Autoignition Temp. (o C) :	Not available
% Volatile by Volume :	Nil

(All above values are Typical Values only)

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10. STABILITY AND REACTIVITY

Stable under normal conditions

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

ACUTE EFFECTS:

- Ingestion:** Harmful if swallowed. May cause gastrointestinal discomfort and irritation
- Eye:** Brief contact may cause mild irritation to eyes.
- Skin:** Mild irritant and poorly absorbed through the skin. Prolonged and repeated contact may cause severe irritation and/or dermatitis
- Inhaled:** Not hazardous at ambient temperatures. Vapours generated at elevated temperatures or when inhaled repeatedly may cause irritation to nose, throat and respiratory tract.

LONG TERM EFFECTS:

Repeated skin contact and inhalation may result in sensitisation in some individuals. May cause allergic reaction, dermatitis or asthma like symptoms. Follow good working practice. Avoid ingestion, inhalation, eye and skin contact. Wash hands with soap and water before eating, drinking, smoking or using toilet facilities.

ACUTE & CHRONIC TOXICITY:

Negative in a battery of mutagenicity assays.

No evidence of carcinogenicity was observed in long term studies of rats. No developmental nor reproductive effects in rat and rabbit. Acceptable Daily Intake (ADI) for humans is 0.01 mg/kg/day.

12. ECOLOGICAL INFORMATION

Avoid contamination of drains, sewerage, creeks and waterways. Product may be toxic to some aquatic organisms.

13. DISPOSAL

Dispose strictly in accordance with local industrial waste disposal and environmental protection regulation. Do not dispose near waterways, vegetation and tree roots. Empty containers and product should not be burned.

14. TRANSPORT INFORMATION

Manufacturer's Code: Not applicable

UN Number: Not applicable

Dangerous Goods Class: Not classified as dangerous goods

Subsidiary Risk: Nil



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Hazchem Code: Not applicable

Poisons Schedule: S5

Packaging Group: Not applicable

EPG: Not applicable

Segregation: Not to be loaded with explosives, oxidising agents or organic peroxides.

For road, marine and air transport this product is not classified as dangerous goods within the context of National and International Transport Regulation.

15. REGULATORY INFORMATION

All components of this material are registered with NICNAS and appear on the AICS.

The National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC : 10005 (1999)].

The National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC : 1015 (2001)]

16. OTHER INFORMATION

Contact point: Technical Manager (03) 9797 6222

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular, how to safely handle and use the product in the workplace. Since H.B. Fuller Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.