

MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: MASTERFLOW 1688UW PART A

Other name: None allocated

Product code: 50643291

Recommended use: Part A of a two component, underwater epoxy grout

Supplier: BASF Construction Chemicals Australia Pty Ltd. ABN 46 000 450 288
BASF New Zealand Ltd.

Address: 11 Stanton Road, Seven Hills, NSW, 2147 Australia
45 William Pickering Drive, Albany, Auckland, New Zealand

Telephone number: +61 2 8811 4200 +64 9 414 7233

Facsimile: +61 2 8811 3299 +64 9 414 7244

Emergency telephone number: 0417 658 263

2. HAZARDS IDENTIFICATION

Hazard classification: HAZARDOUS SUBSTANCE. *NON DANGEROUS GOODS
Hazardous substance according to the criteria of NOHSC
*Non Dangerous goods for transport according to ADG 7 (Special Provision AU01).
*Dangerous goods for transport according to IMDG / IATA
Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Designation: Xi: Irritant; N: Dangerous to the environment

Risk phrase(s): R36/38; R43; R51/53

Safety phrase(s): S2; S24/25; S26; S37; S57; S60; S61;

For full descriptions of R and S phrases, see Section 15.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Bisphenol A epoxy resin	25085-99-8	10 - <30%
Neopentyl Glycol Diglycidyl Ether	17557-23-2	7 - 13%
Alkyl glycidyl ether	68609-97-2	< 10%
Non hazardous ingredients		To 100%

All ingredients listed on AICS.

4. FIRST AID MEASURES

Inhalation: Use in well ventilated areas. If inhalation does occur, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.

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- Eyes: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. Seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.
- Skin: Remove contaminated clothing and wash well before re-use. Remove excess from skin mechanically. Wash contacted areas thoroughly with soap and water. If irritation develops seek medical attention.
- Ingestion: Not a normal route of injury. Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media: Water Spray, Fog, Foam, Carbon Dioxide (CO₂), Dry Powder.
- Hazards from combustion products: Fire will produce dense black smoke, oxides of carbon and other possibly toxic fumes from fire. Exposure to decomposition products may cause a health hazard
- Precautions and equipment for fire fighters: As for surrounding fire. Containers can build up pressure due to heat. Cool endangered containers with water spray in case of fire. Do not allow the quenching water into waterways.
- Hazchem code: 3Z

6. ACCIDENTAL RELEASE MEASURES

- Methods and materials for containment and clean up: Spills should be contained by bunding and absorbing with dry inert filler (e.g. vermiculite, sand, soil etc), which can then be shovelled into appropriately labelled drums. Disposal should be effected by an approved waste disposal organisation according to local regulations. Clean preferably with a detergent; avoid use of solvents.
- Environmental precautions: Avoid subsoil penetration. Do not allow to enter into drains, sewers or waterways. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations

7. HANDLING AND STORAGE

- Precautions for safe handling: Wear personal protective equipment (PPE) as per Section 8. Provide for good ventilation. Avoid skin contact. Avoid generation of aerosols.
- Storage incompatibilities: Avoid contact with oxidising agents, strong acids and bases and amine hardeners.
- Conditions for safe storage: Keep containers tightly closed; store under cool dry conditions. Keep away from food and drink. Avoid long exposure to high temperatures. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Ventilation: Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particles below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn.
- Exposure Standards None established.
- Personal Protective Equipment (PPE):
- Respiratory protection: Type A1 if ventilation is inadequate
- Glove type (AS2161): Chemical resistant, impervious gloves e.g. PVC, butyl rubber or nitrile rubber gauntlets (consult your local glove supplier/manufacturer).
- Eye protection: Chemical worker's goggles, well fitting safety glasses or full face shield.

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Clothing: No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution, especially where heavy contamination is likely.

Other: Use barrier creams to protect skin from contact with the material. Do not eat drink or smoke while working with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow coloured liquid

Odour: Mild - Characteristic

pH: Not available

Solubility in water: Insoluble

Specific gravity: approx. 1.14 g/cm³ at 23°C

Flash point: > 93°C

VOC Concentration: 0 g/l as applied (less water and exempt solvents). Note: VOC concentration expressed as when all ingredients are mixed and applied as per manufacturer's instructions.

10. STABILITY AND REACTIVITY

Chemical stability: Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to mechanical impact.

Incompatible materials: Oxidising agents, strong acids, strong bases and amine hardeners.

Hazardous decomposition products: May evolve toxic gases if heated to decomposition. Aldehydes, carbon monoxide, carbon dioxide and oxides of nitrogen

Hazardous reactions: Exothermic reaction with incompatible materials. Reacts with amines to polymerise releasing heat. Possible danger when mixed and left in volumes > 10 litres.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary: Susceptible individuals may develop allergic reactions such as dermatitis on a single significant skin exposure or may become sensitised to the material on repeated contact. Susceptible individuals may develop asthma like symptoms on a single significant exposure or after repeated inhalation. May cause sensitisation by skin contact or inhalation. Hence it is imperative that all forms of exposure be kept to an absolute minimum. Ingredients not established as carcinogenic.

Inhalation: May cause irritation to nose and mucous membranes

Eyes: Irritant

Skin contact: Irritant. May cause sensitisation by skin contact.

Neopentyl Glycol Diglycidyl Ether CAS No. 17557-23-2
LD50 (Dermal) Rabbit 2150 mg/kg

No data available on product or other ingredients

Ingestion: Bisphenol A epoxy resin CAS No. 25085-99-8
LD50 (Oral) Rat > 2000mg/kg]

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Alkyl glycidyl ether
LD50 (Oral) RatCAS No. 68609-97-2
10,000 mg/kg

No data available on product or other ingredients

12. ECOLOGICAL INFORMATION

Ecology: Do not discharge into drains, sewers or waterways. Do not allow to be absorbed into soil. Degradability not determined. Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is not readily biodegradable. Material is expected to cause long-term adverse effects on the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Ensure containers are sealed. Avoid mist generation. Dispose of to an approved land fill site. Refer to Waste Management Authority.

14. TRANSPORT INFORMATION

Not subject to the ADG Code when transported by Road or Rail. (ADG 7, Special Provision AU01).

Dangerous goods for transport according to IMDG / IATA

UN number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (CONTAINS EPOXY RESIN)
Dangerous goods class: 9
Subsidiary risk: None assigned
EPG card: 8A1
Packing group: III
Hazchem code: 3Z
Poisons schedule: 5

15. REGULATORY INFORMATION

<u>Hazard Designation</u>	Xi	Irritant
	N	Dangerous to the environment.
<u>Risk phrase(s):</u>	R20/21	Harmful by inhalation and in contact with skin.
	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
<u>Safety phrase(s):</u>	S2	Keep out of reach of children.
	S24/25	Avoid contact with skin and eyes
	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 soap and water.
	S37/39	Wear suitable gloves and eye/face protection
	S57	Use appropriate containment to avoid environmental contamination



The Chemical Company

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S60

This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION

Reason for issue: Update health and safety data. New UN No. New product code due to change of company to BASF and BASF system.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for 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. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.