

# SAFETY DATA SHEET

## MasterFlux ER 618 PART B (formerly Master-Flow 618)

Version 1.0      Revision Date: 21.02.2023      SDS Number: 000000264809      Date of last issue: -  
Date of first issue: 21.02.2023

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MasterFlux ER 618 PART B (formerly MasterFlow 618)  
Product code : 000000000050452357

#### Manufacturer or supplier's details

Company : MB Solutions Australia Pty Ltd  
Address : 11 Stanton Road, Seven Hills  
NSW 2147  
Telephone : +611300227300  
Emergency telephone : ChemTel: +1-813-248-0585; Australia: 1-300-954-583

#### Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals  
Restrictions on use : Reserved for industrial and professional use.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin corrosion/irritation : Category 1B  
Skin sensitization : Category 1  
Hazardous to the aquatic environment - acute hazard : Category 2  
Hazardous to the aquatic environment - chronic hazard : Category 2

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

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Precautionary Statements : **Prevention:**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P273 Avoid release to the environment.  
 P260 Do not breathe dusts or mists.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P264 Wash face, hands and any exposed skin thoroughly after handling.

**Response:**

P311 Call a POISON CENTER/ doctor/ .?.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/ doctor/ .?.  
 P303 + P361 + P352 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P361 Take off immediately all contaminated clothing.  
 P301 + P330 IF SWALLOWED: rinse mouth.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to appropriate hazardous waste collection point.

**Other hazards which do not result in classification**

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : epoxy resin

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
triethylenetetramine	112-24-3	>= 50 -< 75
2,3-epoxypropyl neodecanoate	Not Assigned	>= 7 -< 10
Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)	25068-38-6	>= 20 -< 25

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**SECTION 4. FIRST AID MEASURES**

- General advice : First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.
- If inhaled : If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
- In case of skin contact : After contact with skin, wash immediately with plenty of water and soap.  
Under no circumstances should organic solvent be used.  
If irritation develops, seek medical attention.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- If swallowed : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : Harmful in contact with skin.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Causes serious eye damage.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Water spray  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : water jet
- Hazardous combustion products : harmful vapours  
nitrogen oxides  
fumes/smoke  
carbon black  
carbon oxides
- Specific extinguishing methods : The degree of risk is governed by the burning substance and the fire conditions.  
If exposed to fire, keep containers cool by spraying with water.  
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.  
Contaminated extinguishing water must be disposed of in accordance with official regulations.
- Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Do not breathe vapour/aerosol/spray mists.  
Wear eye/face protection.  
If exposed to high vapour concentration, leave area immediately.  
Use personal protective clothing.  
Handle in accordance with good building materials hygiene and safety practice.
- Environmental precautions : Contain contaminated water/firefighting water.  
Do not discharge into drains/surface waters/groundwater.
- Methods and materials for containment and cleaning up : Large spills should be collected mechanically (remove by pumping) for disposal.  
Pick up with inert absorbent material (e.g. sand, earth etc.).  
Correctly dispose of recovered product immediately.
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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid aerosol formation.  
Avoid inhalation of mists/vapours.  
Avoid skin contact.  
No special measures necessary provided product is used correctly.
- Hygiene measures : When using, do not eat, drink or smoke.  
Hands and/or face should be washed before breaks and at the end of the shift.  
At the end of the shift the skin should be cleaned and skin-care agents applied.  
Gloves must be inspected regularly and prior to each use.  
Replace if necessary (e.g. pinhole leaks).
- Further information on storage conditions : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.  
Protect from direct sunlight.
- Materials to avoid : Observe TRGS 509/510 storage rules.
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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

- Respiratory protection : Wear respiratory protection if ventilation is inadequate.  
Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).
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## Hand protection

Remarks : Chemical resistant protective gloves (EN 374) Manufacturer's directions for use should be observed because of great diversity of types. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness fluoroelastomer (FKM) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374) polyvinylchloride (PVC) - 0.7 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness

Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin and body protection : Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Protective measures : Do not inhale gases/vapours/aerosols.  
 Avoid contact with the skin, eyes and clothing.  
 Avoid exposure - obtain special instructions before use.  
 Handle in accordance with good building materials hygiene and safety practice.  
 Wearing of closed work clothing is recommended.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Color	: dark blue
Odor	: characteristic
Odor Threshold	: not determined

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pH : > 12 (23 °C)

Melting point/freezing point : No data available

Boiling range : > 100 °C

Flash point : > 100 °C

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapor pressure : Not applicable

Relative vapor density : No data available

Relative density : No data available

Density : 0,960 - 1,000 g/cm<sup>3</sup> (20 °C)

Bulk density : Not applicable

Solubility(ies)

    Water solubility : insoluble

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : not applicable for mixtures

Autoignition temperature : No data available

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity

    Viscosity, dynamic : Not applicable

    Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

Self-heating substances : It is not a substance capable of spontaneous heating.

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Metal corrosion rate : No corrosive effect on metal.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability : The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions : The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong acids  
Strong bases  
Strong oxidizing agents  
Strong reducing agents

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful in contact with skin.

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

##### Skin sensitization

May cause an allergic skin reaction.

##### Respiratory sensitization

Not classified based on available information.

#### Chronic toxicity

##### Germ cell mutagenicity

Not classified based on available information.

##### Carcinogenicity

Not classified based on available information.

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**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Persistence and degradability****Product:**

Biodegradability : Remarks: Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Stability in water : Remarks: The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: Because of the product's consistency and low water solubility, bioavailability is improbable.

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: The substance will not evaporate into the atmosphere from the water surface.



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Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

**Other adverse effects**
**Product:**

Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

Waste from residues : Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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**SECTION 14. TRANSPORT INFORMATION**
**International Regulations**
**IATA-DGR**

UN/ID No. : UN 3267

Proper shipping name : Corrosive liquid, basic, organic, n.o.s. (TRIETHYLENETETRAMINE, BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Class : 8

Packing group : III

Labels : Corrosives

Packing instruction (cargo aircraft) : 856

Packing instruction (passenger aircraft) : 852

**IMDG-Code**

UN number : UN 3267

Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLENETETRAMINE, BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Class : 8

Packing group : III

Labels : 8

EmS Code : F-A, S-B

Marine pollutant : yes

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### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### ASIA\_ROAD

UN number	:	UN 3267
Proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLENETETRAMINE, BISPHENOL-A- EPICHLORHYDRIN RESINS M <=700)
Class	:	8
Packing group	:	III
Labels	:	8
Hazchem Code	:	2X

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## SECTION 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

### The ingredients of this product are reported in the following inventories:

AIIC : On the inventory, or in compliance with the inventory

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## SECTION 16. OTHER INFORMATION

Revision Date : 21.02.2023

Date format : dd.mm.yyyy

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Con-

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centration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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