

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 04.06.2015

Product: **MasterRoc MP 350 also MEYCO MP 350**

Version: 2.0

(30599290/SDS\_GEN\_AU/EN)

Date of print 05.06.2015

## 1. Substance/preparation and manufacturer/supplier identification

### MasterRoc MP 350 also MEYCO MP 350

Use: Product for construction chemicals

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)

Level 12, 28 Freshwater Place Southbank

Victoria 3006, AUSTRALIA

Telephone: +61 3 8855-6600

Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]

BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 4 (Inhalation - mist)

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 2A

Respiratory sensitization: Cat. 1

Skin sensitization: Cat. 1

Carcinogenicity: Cat. 2

Specific target organ toxicity — single exposure: Cat. 3 (irritating to respiratory system)

Specific target organ toxicity — repeated exposure: Cat. 2

Label elements and precautionary statement:

Pictogram:



Signal Word:

**Danger**

Hazard Statement:

Causes serious eye irritation. Causes skin irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Suspected of causing cancer.

Precautionary Statements (Prevention):

Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust/gas/mist/vapours. Obtain special instructions before use. Avoid breathing mist. Do not handle until all safety precautions have been read and understood. [In case of inadequate ventilation] wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

IF exposed or concerned: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If eye irritation persists: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special 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.

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### 3. Composition/information on ingredients

#### Chemical nature

Prepolymer based on: aromatic isocyanates, polypropylene glycol

Hazardous ingredients**| Diphenylmethane-4,4'-diisocyanate (MDI)**

Content (W/W):  $\geq 10\%$  -  $< 20\%$   
 CAS Number: 101-68-8

Acute Tox.: Cat. 4 (Inhalation - mist)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 2B  
 Resp. Sens.: Cat. 1  
 Skin Sens.: Cat. 1B  
 Carc.: Cat. 2  
 STOT SE: Cat. 3 (irr. to respiratory syst.)  
 STOT RE (Respiratory system): Cat. 2 (by inhalation)

**| Butanedioic acid, dimethyl ester**

Content (W/W):  $\geq 5\%$  -  $< 15\%$   
 CAS Number: 106-65-0

Aquatic Acute: Cat. 3

**| Hexanedioic acid, dimethyl ester**

Content (W/W):  $\geq 3\%$  -  $< 15\%$   
 CAS Number: 627-93-0

Aquatic Acute: Cat. 3

**| Pentanedioic acid, dimethyl ester**

Content (W/W):  $\geq 20\%$  -  $< 50\%$   
 CAS Number: 1119-40-0

Aquatic Acute: Cat. 3

**| Benzene, 1,1'-methylenebis[2-isocyanato-**

Content (W/W):  $\geq 0.2\%$  -  $< 1\%$   
 CAS Number: 2536-05-2

Acute Tox.: Cat. 4 (Inhalation - vapour)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 2A  
 Resp. Sens.: Cat. 1  
 Skin Sens.: Cat. 1  
 Carc.: Cat. 2  
 STOT SE: Cat. 3 (irr. to respiratory syst.)  
 STOT RE: Cat. 2

**| diphenylmethane-2,4'-diisocyanate**

Content (W/W):  $\geq 5\%$  -  $< 15\%$   
 CAS Number: 5873-54-1

Acute Tox.: Cat. 4 (Inhalation - mist)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 2A  
 Resp. Sens.: Cat. 1  
 Skin Sens.: Cat. 1  
 Carc.: Cat. 2  
 STOT SE: Cat. 3 (irr. to respiratory syst.)  
 STOT RE: Cat. 2

## 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.

### On 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.

### On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

### On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

### Note to physician:

Symptoms: tightness in the chest, coughing, difficulty breathing

Hazards: Respiratory sensitization may result in allergic (asthma-like) signs in the lower respiratory tract including wheezing, shortness of breath and difficulty breathing, the onset of which may be delayed. Repeated inhalation of high concentrations may cause lung damage, including reduced lung function, which may be permanent. Substances eliciting lower respiratory tract irritation may worsen the asthma-like reactions that may be produced by product exposures.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## 5. Fire-Fighting Measures

### Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

### Unsuitable extinguishing media for safety reasons:

water jet

### Specific hazards:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

### Special protective equipment:

Wear a self-contained breathing apparatus.

### Further information:

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.

## 6. Accidental Release Measures

### Personal precautions:

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 for cleaning up or taking up:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

## 7. Handling and Storage

### Handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

### Storage

Suitable materials for containers: High density polyethylene (HDPE)

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.

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

Diphenylmethane-4,4'-diisocyanate (MDI), 101-68-8;  
STEL value 0.07 mg/m<sup>3</sup> (OEL (AU))  
TWA value 0.02 mg/m<sup>3</sup> (OEL (AU))  
TWA value 0.02 mg/m<sup>3</sup> (AU NOEL)  
STEL value 0.07 mg/m<sup>3</sup> (AU NOEL)  
STEL value 0.07 mg/m<sup>3</sup> (AU NOEL)  
TWA value 0.02 mg/m<sup>3</sup> (AU NOEL)  
TWA value 0.005 ppm (ACGIHTLV)

Benzene, 1,1'-methylenebis[2-isocyanato-, 2536-05-2;

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TWA value 0.02 mg/m<sup>3</sup> (OEL (AU))

Measured as: NCO

STEL value 0.07 mg/m<sup>3</sup> (OEL (AU))

Measured as: NCO

TWA value 0.02 mg/m<sup>3</sup> (AU NOEL)

Measured as: NCO

STEL value 0.07 mg/m<sup>3</sup> (AU NOEL)

Measured as: NCO

diphenylmethane-2,4'-diisocyanate, 5873-54-1;

STEL value 0.07 mg/m<sup>3</sup> (OEL (AU))

Measured as: NCO

TWA value 0.02 mg/m<sup>3</sup> (OEL (AU))

Measured as: NCO

TWA value 0.02 mg/m<sup>3</sup> (AU NOEL)

Measured as: NCO

STEL value 0.07 mg/m<sup>3</sup> (AU NOEL)

Measured as: NCO

#### 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).

**Hand protection:**

impermeable gloves

Synthetic rubber gloves

Manufacturer's directions for use should be observed because of great diversity of types.

**Eye protection:**

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

**Body protection:**

light protective clothing

**General safety and hygiene 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. 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).

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## 9. Physical and Chemical Properties

Form:	liquid
Colour:	dark brown
Odour:	characteristic
Odour threshold:	No applicable information available.

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pH value:	not applicable	
Melting point:	not applicable	
Boiling point:	not applicable	
Flash point:	> 100 °C	(DIN 53213-1)
Evaporation rate:	not determined	
Flammability (solid/gas):	not determined	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	The product has not been tested.	
Density:	approx. 1.15 g/cm <sup>3</sup> (20 °C)	
Relative vapour density (air):	not determined	
Solubility in water:	moderately soluble	
Miscibility with water:	partly miscible	
Viscosity, dynamic:	approx. 260 mPa.s (23 °C)	

**Other Information:**

If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

**Conditions to avoid:**

See MSDS section 7 - Handling and storage.

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

**Substances to avoid:**

strong acids, strong bases, strong oxidizing agents, strong reducing agents

Corrosion to metals: No corrosive effect on metal.

**Hazardous reactions:**

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

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

## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

### Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

### Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract. Studies in animals suggest that dermal exposure may lead to pulmonary sensitization.

However, the relevance of this result for humans is unclear.

### Germ cell mutagenicity

Assessment of mutagenicity:

Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

### Carcinogenicity

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests. A carcinogenic effect cannot safely be ruled out. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Reproductive toxicity

Assessment of reproduction toxicity:

No effects have been reported in reproductive organs in long term animal studies.

### Developmental toxicity

Assessment of teratogenicity:

The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

Contains isocyanates. Observe manufacturer's instructions.

### Specific target organ toxicity (single exposure):



Assessment of STOT single:

| Causes temporary irritation of the respiratory tract.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

| Repeated inhalation exposure may affect certain organs. After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Other relevant toxicity information**

| Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

| There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

| The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: methylenediphenyl diisocyanate

Toxicity to fish:

LC50 (96 h) > 1,000 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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### **Mobility**

Assessment transport between environmental compartments:

| The substance will not evaporate into the atmosphere from the water surface.

| Adsorption to solid soil phase is not expected.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

| Not readily biodegradable (by OECD criteria).

### **Bioaccumulation potential**

Assessment bioaccumulation potential:

| Based on a weight of evidence, the compound will not bioaccumulate.

### Additional information

Other ecotoxicological advice:

There is a high probability that the product is not acutely harmful to aquatic organisms. 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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## 13. Disposal Considerations

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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## 14. Transport Information

**Domestic transport:**  
Not classified as a dangerous good under transport regulations

**Sea transport**  
IMDG  
Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO  
Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Other regulations

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 6

### Registration status:

AICS, AU released / listed

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.