

# SAFETY DATA SHEET



## MasterRoc MP 355 1K DW

Version 3.0      Revision Date: 08/15/2023      SDS Number: 000000350161      Date of last issue: 07/28/2023  
Date of first issue: 01/24/2023

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### SECTION 1. IDENTIFICATION

Product name : MasterRoc MP 355 1K DW  
Product code : 000000000059200144 000000000059200144  
Other means of identification : No data available

#### Manufacturer or supplier's details

Company name of supplier : Master Builders Solutions Canada Inc.  
Address : 1800 CLARK BLVD  
Brampton ON L6T 4M7  
Emergency telephone : ChemTel: +1-813-248-0585;  
National Emergency Telephone Number : USA: +1-800-255-3924 ChemTel contract no. MIS9240420

#### 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 in accordance with the Hazardous Products Regulations

Acute toxicity (Inhalation - vapour) : Category 4  
Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 2A  
Respiratory sensitization : Category 1  
Skin sensitization : Category 1B  
Carcinogenicity : Category 2  
Specific target organ toxicity - single exposure : Category 3  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Olfactory organs)

#### GHS label elements

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Hazard pictograms

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Signal Word

: Danger

Hazard Statements

: H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.

Precautionary Statements

: **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P271 Use only outdoors or in a well-ventilated area.  
P260 Do not breathe dusts or mists.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P284 In case of inadequate ventilation wear respiratory protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
**Response:**  
P308 + P311 IF exposed or concerned: 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.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P314 Get medical advice/ attention if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

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### Disposal:

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

### Other hazards

Contains isocyanates. Inhalation of isocyanate mists or vapors may cause respiratory irritation, breathlessness, chest discomfort and reduced pulmonary function. Overexposure well above the PEL may result in bronchitis, bronchial spasms and pulmonary edema. Animal tests indicate that skin contact may play a role in causing respiratory sensitization.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Aromatic isocyanates

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Diphenylmethane-4,4'-diisocyanate (MDI)	MDI	101-68-8	$\geq 25 - < 50$
diphenylmethane-2,4'-diisocyanate	Benzene, 1-isocyanato-2-[(4-isocyanato-phenyl)methyl]-	5873-54-1	$\geq 10 - < 50$
2,2'-Methylenediphenyl diisocyanate	Benzene, 1,1'-methylenebis[2-isocyanato-	2536-05-2	$\geq 0.3 - < 3$

## SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled : Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.

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 : Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution and seek medical advice.

If swallowed : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting unless told to by a poison control cen-

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ter or doctor.

Most important symptoms and effects, both acute and delayed : Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Notes to physician : Treat symptomatically.

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### 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 : fumes/smoke  
harmful vapours  
Carbon oxides  
nitrogen oxides  
carbon black

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.

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 : Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Wear eye/face protection.  
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 : Pick up with suitable appliance and dispose of.  
Dispose of absorbed material in accordance with regulations.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against : The product is neither self-ignitable, nor an explosion hazard,

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fire and explosion      nor does it promote fires.

Advice on safe handling      :      Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage      :      Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

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.

Recommended storage temperature      :      5 - 35 °C

Further information on storage stability      :      PROTECT FROM FREEZING DURING THE COLD-SEASON (BELOW 40°F / 5°C ).

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzene, 1,3-diisocyanatomethyl-	26471-62-5	TWAEV	0.005 ppm 0.036 mg/m3	CA QC OEL
		STEV	0.02 ppm 0.14 mg/m3	CA QC OEL
		TWA	0.005 ppm 0.04 mg/m3	CA AB OEL
		(c)	0.02 ppm 0.1 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA ON OEL
		C	0.02 ppm	CA ON OEL
		TWA (Inhalable fraction)	0.001 ppm	ACGIH

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		and vapor)		
		STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH
Carbon monoxide	630-08-0	TWA value	25 ppm	ACGIH TLV
		REL value	35 ppm 40 mg/m <sup>3</sup>	NIOSH
		Ceil_Time	200 ppm 229 mg/m <sup>3</sup>	NIOSH
		PEL	50 ppm 55 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		TWA value	35 ppm 40 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		CLV	200 ppm 229 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		TWA	25 ppm 29 mg/m <sup>3</sup>	CA AB OEL
		TWA	25 ppm	CA BC OEL
		STEL	100 ppm	CA BC OEL
		TWAEV	35 ppm 40 mg/m <sup>3</sup>	CA QC OEL
		STEV	200 ppm 230 mg/m <sup>3</sup>	CA QC OEL
		TWA	25 ppm	ACGIH
	74-90-8	(c)	4.7 ppm 5.2 mg/m <sup>3</sup> (Cyanide)	CA AB OEL
		C	4.7 ppm (Cyanide)	CA BC OEL
		C	10 ppm 11 mg/m <sup>3</sup> (Cyanide)	CA QC OEL
		C	4.7 ppm (Cyanide)	ACGIH

**Engineering measures** : Ensure adequate ventilation.

**Personal protective equipment**

Respiratory protection : Wear appropriate certified respirator when exposure limits may be exceeded.  
 Use NIOSH approved respiratory protection.

Hand protection

Remarks : Chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Wear safety glasses with side shields or goggles.

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- Skin and body protection : Body protection must be chosen based on level of activity and exposure.
- Protective measures : Do not inhale dust/fumes/aerosols.  
Avoid contact with the skin, eyes and clothing.  
Avoid exposure.  
Handle in accordance with good building materials hygiene and safety practice.  
Wearing of closed work clothing is recommended.
- 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).
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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : colorless
- Odor : aromatic
- Odor Threshold : not determined
- pH : 8 - 9
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : > 130 °C  
Method: Flashpoint test using closed cup, determination of flashpoint.
- Evaporation rate : not determined
- Flammability (liquids) : Not classified as a flammability hazard
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
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Vapor pressure : No data available

Relative vapor density : not determined

Relative density : No data available

Density : approx. 1.16 g/cm<sup>3</sup> (20 °C)

Bulk density : Not applicable

Solubility(ies)

    Water solubility : partly soluble

    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 : approx. 700 mPa.s ( 23 °C)

    Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

Sublimation point : No data available

Molecular weight : Not applicable

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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 : Reacts with water, with formation of carbon dioxide.  
Risk of bursting.  
Reacts with alcohols.  
Reacts with acids.  
Reacts with alkalis.  
Reacts with amines.  
Risk of exothermic reaction.  
Risk of violent reaction.



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Risk of polymerization.  
Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.  
The product is chemically stable.

- Conditions to avoid : Avoid moisture.  
See SDS section 7 - Handling and storage.
- Incompatible materials : Water  
Alcohols  
Strong bases  
Substances/products that react with isocyanates.
- Hazardous decomposition products : nitrogen oxides  
Aromatic isocyanates  
gases/vapours

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if inhaled.

#### Product:

Acute inhalation toxicity : ATE: 11.4 mg/l  
Remarks: Determined for vapor

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

##### Skin sensitization

May cause an allergic skin reaction.

##### Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

May cause respiratory irritation.

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**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**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 : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological 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.

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: No data available. Discharge into the environment must be avoided.

**Mobility in soil**

No data available

**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 : Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater. Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### Domestic regulation

##### TDG

Not regulated as a dangerous good

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### SECTION 15. REGULATORY INFORMATION

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

- TSCA : All substances listed as active on the TSCA inventory
- DSL : All components of this product are on the Canadian DSL

#### Canadian lists

No substances are subject to a Significant New Activity Notification.

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### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

- 29 CFR 1910.1000 (Table Z-1-A) : OSHA - Table Z-1-A (29 CFR 1910.1000)
- 29 CFR 1910.1000 (Table Z-1) : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV	:	American Conference of Governmental Industrial Hygienists - threshold limit values (US)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
NIOSH	:	NIOSH Pocket Guide to Chemical Hazards (US)
29 CFR 1910.1000 (Table Z-1-A) / CLV	:	Ceiling Limit Value:
29 CFR 1910.1000 (Table Z-1-A) / TWA value	:	Time Weighted Average (TWA):
29 CFR 1910.1000 (Table Z-1) / PEL	:	Permissible exposure limit
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
ACGIHTLV / TWA value	:	Time Weighted Average (TWA):
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / (c)	:	ceiling occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA BC OEL / C	:	ceiling limit
CA ON OEL / C	:	Ceiling Limit (C)
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWA EV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value
CA QC OEL / C	:	Ceiling
NIOSH / Ceil_Time	:	Ceiling Limit Value and Time Period (if specified):
NIOSH / REL value	:	Recommended exposure limit (REL):

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 Concentration 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 Develop-

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ment; 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

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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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