

# SAFETY DATA SHEET

## MasterRoc RBA 387 PTB

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

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### SECTION 1. IDENTIFICATION

Product name : MasterRoc RBA 387 PTB  
Product code : 000000000059200137 000000000059200137  
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


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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Inhalation) : Category 4  
Skin irritation : Category 2  
Eye irritation : Category 2B  
Respiratory sensitization : Category 1  
Skin sensitization : Category 1  
Specific target organ toxicity - single exposure : Category 3  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Olfactory organs, Respiratory system)

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H320 Causes eye irritation.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.

# SAFETY DATA SHEET



## MasterRoc RBA 387 PTB

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

---

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs (Olfactory organs, Respiratory system) through prolonged or repeated exposure if inhaled.

### Precautionary Statements

:

#### Prevention:

P280 Wear protective gloves.  
P271 Use only outdoors or in a well-ventilated area.  
P260 Do not breathe dusts or mists.  
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:

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
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.

#### 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.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

# SAFETY DATA SHEET

## MasterRoc RBA 387 PTB

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

Substance / Mixture : Mixture  
Chemical nature : Preparation based on:  
polyisocyanate

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Isocyanic acid, polymethylenepolyphenylene ester	Isocyanic acid, polymethylene-polyphenylene ester	9016-87-9	$\geq 70 - < 90$ *
2-(2-butoxyethoxy)ethyl acetate	Ethanol, 2-(2-butoxyethoxy)-, acetate	124-17-4	$\geq 10 - < 20$ *

\* Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

If inhaled : Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

In case of skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.

If swallowed : Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. If accidentally swallowed obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed : Causes eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure if inhaled.

Notes to physician : Treat symptomatically.

**MasterRoc RBA 387 PTB**

Version            Revision Date:            SDS Number:            Date of last issue: 07/28/2023  
2.0                08/16/2023              000000971073        Date of first issue: 01/11/2023

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Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Water spray in large fire situations
  
- Unsuitable extinguishing media : water jet
  
- Specific hazards during fire fighting : Reacts with water, with formation of carbon dioxide.
  
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.  
harmful vapours  
isocyanate  
hydrogen cyanide
  
- Further information : Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
  
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and chemical-protective clothing.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Use breathing apparatus if exposed to vapours/dust/aerosol.  
Wear eye/face protection.  
Use personal protective clothing.  
Handle in accordance with good building materials hygiene and safety practice.  
Information regarding personal protective measures, see section 8.
  
- Environmental precautions : Contain contaminated water/firefighting water.  
Do not discharge into drains/surface waters/groundwater.
  
- Methods and materials for containment and cleaning up : Dike spillage.  
If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.  
Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information).  
Shovel into open container.

**MasterRoc RBA 387 PTB**

Version	Revision Date:	SDS Number:	Date of last issue: 07/28/2023
2.0	08/16/2023	000000971073	Date of first issue: 01/11/2023

---

Spill area can be decontaminated with the following recommended decontamination solution:  
Mixture of 90 % water, 5-8 % household ammonia, 2-5 % detergent.  
Wash down spill area with decontamination solution.  
Allow solution to stand for at least 10 minutes.  
Pick up with suitable absorbent material.  
Place into appropriately labeled waste containers.  
Do not make container pressure tight.  
Move container to a well-ventilated area (outside).  
Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.  
Dispose of absorbed material in accordance with regulations.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- 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.  
Protect against moisture.  
Formation of CO<sub>2</sub> and build up of pressure possible.  
Danger of bursting when sealed gastight.
- Materials to avoid : Segregate from incompatible substances.
- Further information on storage stability : No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

## MasterRoc RBA 387 PTB

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	TWA	0.005 ppm 0.07 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	0.005 ppm 0.051 mg/m <sup>3</sup>	CA QC OEL
		TWA	0.005 ppm	CA BC OEL
		C	0.01 ppm	CA BC OEL

**Engineering measures** : Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### Personal protective equipment

Respiratory protection : Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection

Remarks : Chemical resistant protective gloves should be worn to prevent all skin contact. Suitable materials may include chloroprene rubber (Neoprene) nitrile rubber (Buna N) chlorinated polyethylene polyvinylchloride (Pylox) butyl rubber depending upon conditions of use. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Wear safety glasses with side shields or goggles. Wear face shield if splashing hazard exists.

Skin and body protection : Cover as much of the exposed skin as possible to prevent all skin contact.  
Suitable materials may include saran-coated material  
Chemical resistant protective boots

Protective measures : Do not breathe vapour/aerosol/spray mists. Observe the appropriate PEL or TLV value. Wear protective clothing as necessary to prevent contact. With products freshly manufactured from isocyanates body protection and chemical resistant protective gloves is recommended. Eye wash fountains and safety showers must be easily accessible.

Hygiene measures : When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. 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.

# SAFETY DATA SHEET

## MasterRoc RBA 387 PTB

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

---

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 : brown, clear

Odor : faintly aromatic

Odor Threshold : not determined

pH : substance/mixture reacts with water

Melting temperature : not determined

Freezing point : not determined

boiling temperature : not determined

Flash point : > 200 °C

Evaporation rate : No applicable information available.

Flammability (liquids) : Not classified as a flammability hazard

Upper explosion limit / Upper flammability limit : No applicable information available.

Lower explosion limit / Lower flammability limit : No applicable information available.

Vapor pressure : No applicable information available.

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Density : approx. 1.18 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

    Water solubility : No applicable information available.

    Solubility in other solvents : No applicable information available.

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

# SAFETY DATA SHEET

## MasterRoc RBA 387 PTB

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

---

Autoignition temperature : > 600 °C

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

Viscosity

    Viscosity, dynamic : approx. 150 mPa.s ( 23 °C)

    Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

Sublimation point : No applicable information available.

Molecular weight : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.  
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

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

Possibility of hazardous reactions : Reacts with water to form carbon dioxide and heat  
Risk of bursting.  
Reacts with alcohols.  
Reacts with acids.  
Reacts with alkalis.  
Reacts with amines.  
Risk of exothermic reaction.  
Polymerization can occur.  
Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

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

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
hydrogen cyanide  
Isocyanates



**MasterRoc RBA 387 PTB**

Version	Revision Date:	SDS Number:	Date of last issue: 07/28/2023
2.0	08/16/2023	000000971073	Date of first issue: 01/11/2023

---

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Harmful if inhaled.

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes 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**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

May cause damage to organs (Olfactory organs, Respiratory system) through prolonged or repeated exposure if inhaled.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks : 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.

**MasterRoc RBA 387 PTB**

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

---

**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.

**Components:****2-(2-butoxyethoxy)ethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1.7 (23 °C)  
pH: 6.4  
Method: OECD Test Guideline 117

**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.

**Components:****2-(2-butoxyethoxy)ethyl acetate:**

Additional ecological information : Do not release untreated into natural waters.

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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.

# SAFETY DATA SHEET



## MasterRoc RBA 387 PTB

Version 2.0      Revision Date: 08/16/2023      SDS Number: 000000971073      Date of last issue: 07/28/2023  
Date of first issue: 01/11/2023

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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

**NPRI Components** : Isocyanic acid, polymethylenepolyphenylene ester  
2-(2-butoxyethoxy)ethyl acetate  
2,6-di-tert-butyl-p-cresol

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

TSCA : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)  
CA BC OEL : Canada. British Columbia OEL  
CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants  
CA AB OEL / TWA : 8-hour Occupational exposure limit  
CA BC OEL / TWA : 8-hour time weighted average  
CA BC OEL / C : ceiling limit  
CA QC OEL / TWAEV : Time-weighted average exposure value

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 -

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# SAFETY DATA SHEET



## MasterRoc RBA 387 PTB

Version	Revision Date:	SDS Number:	Date of last issue: 07/28/2023
2.0	08/16/2023	000000971073	Date of first issue: 01/11/2023

---

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 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; TECI - 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

Revision Date : 08/16/2023  
Date format : mm/dd/yyyy

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