SAFETY DATA SHEET

MasterEmaco ADH 327RS PART A

SECTION 1. IDENTIFICATION

Product name : MasterEmaco ADH 327RS PART A
Product code : 000000000051668787 000000000051668787
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; Canada: 1-800-255-3924

Recommended use of the chemical and restrictions on use
Recommended use : Product for construction chemicals
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations
Skin corrosion/irritation : 2
Serious eye damage/eye irritation : Category 2A
Skin sensitization : Category 1
Short-term (acute) aquatic hazard : 2
Long-term (chronic) aquatic hazard : 2

GHS label elements
Hazard pictograms :

Signal Word : Warning
Hazard Statements : H319 Causes serious eye irritation.
                   H315 Causes skin irritation.
                   H317 May cause an allergic skin reaction.
                   H401 Toxic to aquatic life.
                   H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements :
Prevention :
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  

**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.  
P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.  

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

**Other hazards**  
No data available.  

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS  

**Chemical nature:** No applicable information available.  

**Components**  

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight &lt;= 700)</td>
<td>25068-38-6</td>
<td>&gt;= 50 - &lt; 75</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>&gt;= 25 - &lt; 50</td>
</tr>
<tr>
<td>1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane</td>
<td>17557-23-2</td>
<td>&gt;= 10 - &lt; 15</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES  

**General advice:** Remove contaminated clothing.  
Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.  

**If inhaled:** Keep patient calm, remove to fresh air, seek medical attention.  
If unconscious, place in recovery position and seek medical advice.
In case of skin contact: Wash thoroughly with soap and water. If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Notes to physician: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray
Foam
Dry powder
Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Do not allow run-off from fire fighting to enter drains or water courses.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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 for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Product is not explosive.

Normal measures for preventive fire protection.

Advice on safe handling:
- 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.
- 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.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 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, well-ventilated place.
- Protect from direct sunlight.
- Store protected against freezing.

Materials to avoid: Observe VCI storage rules.

Further information on storage stability: No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>TWA value</td>
<td>10 mg/m³</td>
<td>ACGIHTLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL (Total dust)</td>
<td>15 mg/m³</td>
<td>29 CFR 1910.1000 (Table Z-1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA value (Total dust)</td>
<td>10 mg/m³</td>
<td>29 CFR 1910.1000 (Table Z-1-A)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>CA AB OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Total dust)</td>
<td>10 mg/m³</td>
<td>CA BC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respir-)</td>
<td>3 mg/m³</td>
<td>CA BC OEL</td>
</tr>
</tbody>
</table>
## Engineering measures

- No applicable information available.

## Personal protective equipment

### Respiratory protection

- Wear respiratory protection if ventilation is inadequate.

### Hand protection

- The suitability for a specific workplace should be discussed with the producers of the protective gloves.

### Eye protection

- Eye wash bottle with pure water
- Tightly fitting safety goggles
- Wear face-shield and protective suit for abnormal processing problems.

### Skin and body protection

- Impervious clothing
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Protective measures

- Avoid contact with the skin, eyes and clothing.
- No special measures necessary if stored and handled correctly.
- 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 or drink.

## Exposure limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWAV (total dust)</th>
<th>TWA (respirable dust)</th>
<th>TWA (particles)</th>
<th>TWA (respirable fraction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>10 mg/m³</td>
<td>10 mg/m³ (Titanium dioxide)</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>CA QC OEL</td>
<td>ACGIH</td>
<td>CA AB OEL</td>
<td>CA ON OEL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA (fibers)</th>
<th>TWA (respirable dust)</th>
<th>TWA (respirable particulates)</th>
<th>TWA (respirable fraction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>1 fibre/cm³</td>
<td>3 mg/m³</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>CA QC OEL</td>
<td>CA BC OEL</td>
<td>CA AB OEL</td>
<td>CA ON OEL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA (respirable particulate matter)</th>
<th>TWA (respirable fraction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>0.1 fibre/cm³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>CA BC OEL</td>
<td>CA ON OEL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA (respirable fraction)</th>
<th>TWA (respirable particulate matter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>CA ON OEL</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste
Color : white
Odor Threshold : No data available
Melting point : No applicable information available.
Freezing point : No applicable information available.
boiling temperature : approx. 100 °C
Flash point : approx. 249 °C
   Method: Flash-Point by Pensky-Martens Closed Cup Tester.
Evaporation rate : No applicable information available.
Flammability (solid, gas) : not highly flammable
Relative vapor density : Heavier than air.
Relative density : approx. 1.16
Density : approx. 1.16 g/cm3 (approx. 20 °C)
Solubility(ies)
   Water solubility : insoluble (20 °C)
   Solubility in other solvents : insoluble
Autoignition temperature : No data available
Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.
Viscosity
   Viscosity, dynamic : No applicable information available.
   Viscosity, kinematic : No applicable information available.
Sublimation point : No applicable information available.
Molecular weight : No data available
Metal corrosion rate : Corrosive effects to metal are not anticipated.

SECTION 10. STABILITY AND REACTIVITY
Reactivity: No decomposition if stored and applied as directed.
Chemical stability: No decomposition if stored and applied as directed.
Possibility of hazardous reactions: No decomposition if stored and applied as directed.
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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: ATE: > 5,000 mg/kg
Acute inhalation toxicity: ATE: > 20,0000 mg/l
Remarks: Determined for vapor
          ATE: > 5,0000 mg/l
          Remarks: Determined for mist
Acute dermal toxicity: ATE: > 5,000 mg/kg

Skin corrosion/irritation
Causes skin irritation.

Product:
Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation
Causes serious eye irritation.

Product:
Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization

Skin sensitization
May cause an allergic skin reaction.

Respiratory sensitization
Not classified based on available information.

Product:
Remarks: Causes sensitization.

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
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: The product has not been tested. The statement has been derived from the properties of the individual components.

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment
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.

Components:

talc:
Partition coefficient: n-octanol/water: Remarks: not applicable
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:
Partition coefficient: n-octanol/water
Remarks: No data available.

Titanium dioxide:
Partition coefficient: n-octanol/water
Remarks: not applicable

Mobility in soil

Product:
Distribution among environmental compartments
Remarks: The substance will not evaporate into the atmosphere from the water surface. Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected. Following exposure to soil, adsorption to solid soil particles is unlikely, therefore contamination of groundwater is expected.

Other adverse effects

Product:
Additional ecological information
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with national, state and local regulations.
Do not discharge into drains/surface waters/groundwater.

Contaminated packaging
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number
UN 3082
Proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Class
9
Subsidiary risk
EHSM
Packing group
III
Labels
9 (EHSM)

IATA-DGR
UN/ID No. : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Class : 9
Subsidiary risk : EHSM
Packing group : III
Labels : Miscellaneous, Environmentally hazardous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964

IMDG-CODE
UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Class : 9
Subsidiary risk : EHSM
Packing group : III
Labels : 9 (EHSM)
EmS Code : F-A, S-F
Marine pollutant : yes

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

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:
DSL : On the inventory, or in compliance with the inventory

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
ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV : American Conference of Governmental Industrial Hygienists -
<table>
<thead>
<tr>
<th>Acronyms</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AICS</td>
<td>Australian Inventory of Chemical Substances</td>
</tr>
<tr>
<td>ANTT</td>
<td>National Agency for Transport by Land of Brazil</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for the Testing of Materials</td>
</tr>
<tr>
<td>bw</td>
<td>Body weight</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogen, Mutagen or Reproductive Toxicant</td>
</tr>
<tr>
<td>DIN</td>
<td>Standard of the German Institute for Standardisation</td>
</tr>
<tr>
<td>DSL</td>
<td>Domestic Substances List (Canada)</td>
</tr>
<tr>
<td>ECx</td>
<td>Concentration associated with x% growth rate response</td>
</tr>
<tr>
<td>ENCS</td>
<td>Existing and New Chemical Substances (Japan)</td>
</tr>
<tr>
<td>ERG</td>
<td>Emergency Response Guide</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>GLP</td>
<td>Good Laboratory Practice</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IBC</td>
<td>International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>IC50</td>
<td>Half maximal inhibitory concentration</td>
</tr>
<tr>
<td>ICBO</td>
<td>International Organisation for Standardisation</td>
</tr>
<tr>
<td>IE</td>
<td>Kec</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration to 50% of a test population</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose to 50% of a test population</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships</td>
</tr>
<tr>
<td>n.o.s.</td>
<td>Not Otherwise Specified</td>
</tr>
<tr>
<td>Nch</td>
<td>Chilean Norm</td>
</tr>
<tr>
<td>NO(A)EC</td>
<td>No Observed (Adverse) Effect Concentration</td>
</tr>
<tr>
<td>NO(A)EL</td>
<td>No Observed (Adverse) Effect Level</td>
</tr>
<tr>
<td>NOELR</td>
<td>No Observable Effect Loading Rate</td>
</tr>
<tr>
<td>NOM</td>
<td>Official Mexican Norm</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>OECD</td>
<td>Organization for Economic Co-operation and Development</td>
</tr>
<tr>
<td>OPPTS</td>
<td>Office of Chemical Safety and Pollution Prevention</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic substance</td>
</tr>
<tr>
<td>PICCS</td>
<td>Philippines Inventory of Chemicals and Chemical Substances</td>
</tr>
<tr>
<td>(Q)SAR</td>
<td>(Quantitative) Structure Activity Relationship</td>
</tr>
<tr>
<td>SADT</td>
<td>Self-Accelerating Decomposition Temperature</td>
</tr>
<tr>
<td>SDS</td>
<td>Safety Data Sheet</td>
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<tr>
<td>TCSI</td>
<td>Taiwan Chemical Substance Inventory</td>
</tr>
<tr>
<td>TDG</td>
<td>Transport of Dangerous Goods</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act (United States)</td>
</tr>
<tr>
<td>UN</td>
<td>United Nations</td>
</tr>
<tr>
<td>UNRTDG</td>
<td>United Nations Recommendations on the Transport of Dangerous Goods</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
</tbody>
</table>
We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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