SECTION 1. IDENTIFICATION

Product name : MasterEmaco ADH 327RS PART A
Product code : 000000000051668787 000000000051668787

Manufacturer or supplier’s details
Company name of supplier : Master Builders Solutions US, LLC
Address : 23700 CHAGRIN BLVD
          Beachwood OH 44122
Emergency telephone : ChemTel: +1-813-248-0585 USA: +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 29 CFR 1910.1200
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 : ![Caution] ![Toxic to Marine Life]

Signal Word : Warning

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. If symptoms persist, call a physician.

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
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Date of first issue: 08/04/2020

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 (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Total dust)</td>
<td>10 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 mg/m³ (Titanium dioxide)</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>TWA value (Respirable)</td>
<td>2 mg/m³</td>
<td>ACGIHTLV</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

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<table>
<thead>
<tr>
<th>Version</th>
<th>SDS Number</th>
<th>Date of last issue</th>
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<tbody>
<tr>
<td>1.0</td>
<td>00000259980</td>
<td>08/04/2020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Limit</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA (Dust)</td>
<td>20 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td>TWA (respirable dust fraction)</td>
<td>2 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>TWA (Respirable)</td>
<td>2 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>TWA</td>
<td>0.1 fibres per cubic centimeter</td>
<td>ACGIH</td>
</tr>
<tr>
<td>TWA (Respirable particulate matter)</td>
<td>2 mg/m³</td>
<td>ACGIH</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.
- 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.

**boiling temperature**: approx. 212 °F / 100 °C

**Flash point**: approx. 480 °F / 249 °C

Method: Flash-Point by Pensky-Martens Closed Cup Tester. 480 °F / 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. 68 °F / 20 °C)

Solubility(ies):
- Water solubility: insoluble (68 °F / 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:
<table>
<thead>
<tr>
<th>Safety Data Sheet</th>
<th>MasterEmaco ADH 327RS PART A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
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</tr>
</tbody>
</table>

## Acute oral toxicity
ATE: > 5,000 mg/kg

## Acute inhalation toxicity
ATE: > 20,000 mg/l
Remarks: Determined for vapor
ATE: > 5,000 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

49 CFR
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

US State Regulations

Pennsylvania Right To Know
Titanium dioxide 13463-67-7
talc 14807-96-6

New Jersey Right To Know
Titanium dioxide 13463-67-7
talc 14807-96-6

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

SECTION 16. OTHER INFORMATION

Further information
NFPA 704:  Health  2  Flammability  1  Instability  0  Special hazard

HMIS® IV:

HEALTH
FLAMMABILITY
PHYSICAL HAZARD

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "**" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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 - threshold limit values (US)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
OSHA P0: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
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
ACGIHTLV / TWA value: Time Weighted Average (TWA):
NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA: 8-hour time weighted average
OSHA Z-1 / TWA: 8-hour time weighted average
OSHA Z-3 / TWA: 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration asso-
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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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