

## MasterEmaco ADH 1090RS PART A

Version 1.0      Revision Date: 08/21/2020      SDS Number: 000000259983      Date of last issue: -  
Date of first issue: 08/21/2020

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**SECTION 1. IDENTIFICATION**

Product name : MasterEmaco ADH 1090RS PART A  
Product code : 000000000057152379 000000000057152379

**Manufacturer or supplier's details**

Company name of supplier : Master Builders-Construction Systems  
US, LLC  
Address : 23700 CHAGRIN BLVD  
Beachwood OH 44122  
Emergency telephone : ChemTel: +1-813-248-0585

**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 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 : 

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.

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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.  
 P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.  
 P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.  
 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****Components**

| Chemical name  | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| bisphenol A-epichlorohydrin resin  | 25068-38-6 | >= 0.1 - < 75         |
| Reaction product: bisphenol-A-(epichlorohydrin)-Epoxy resin (number average molecular weight <= 700) | 25068-38-6 | >= 0 - < 75           |
| 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane  | 17557-23-2 | >= 10 - < 15          |
| Titanium dioxide   | 13463-67-7 | >= 1 - < 3            |

**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.

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- 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.
- Clean mouth with water and drink afterwards plenty of water.  
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 (CO<sub>2</sub>)
- 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.

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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.

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**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.

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**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, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

Materials to avoid : Observe VCI storage rules.

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Further information on storage stability : No data available

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Components       | CAS-No.    | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis                          |
|------------------|------------|-------------------------------|--|--------------------------------|
| Titanium dioxide | 13463-67-7 | TWA value                     | 10 mg/m <sup>3</sup>                           | ACGIHTLV                       |
|                  |            | PEL (Total dust)              | 15 mg/m <sup>3</sup>                           | 29 CFR 1910.1000 (Table Z-1)   |
|                  |            | TWA value (Total dust)        | 10 mg/m <sup>3</sup>                           | 29 CFR 1910.1000 (Table Z-1-A) |
|                  |            | TWA (total dust)              | 15 mg/m <sup>3</sup>                           | OSHA Z-1                       |
|                  |            | TWA (Total dust)              | 10 mg/m <sup>3</sup>                           | OSHA P0                        |
|                  |            | TWA                           | 10 mg/m <sup>3</sup> (Titanium dioxide)        | ACGIH                          |

**Engineering measures** : No applicable information available.

**Personal protective equipment**

**Respiratory protection** : When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

**Hand protection**

**Remarks** : 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** : 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.

**Hygiene measures** : When using do not eat or drink.

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When using do not smoke.  
Wash hands before breaks and at the end of workday.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |   |
|--|---|---|
| Appearance                             | : | liquid  |
| Color                                  | : | white   |
| Odor                                   | : | mild  |
| Odor Threshold                         | : | No data available   |
| pH                                     | : | not applicable  |
| Melting point                          | : | No applicable information available.  |
| Boiling range                          | : | 217 - 225 °F / 103 - 107 °C<br>(for a component of this mixture)                |
| Flash point                            | : | 212 °F / 100 °C<br><br>Method: Flash-Point by Pensky-Martens Closed Cup Tester. |
| Evaporation rate                       | : | No applicable information available.  |
| Flammability (solid, gas)              | : | not highly flammable  |
| Vapor pressure                         | : | negligible  |
| Relative vapor density                 | : | Heavier than air.   |
| Relative density                       | : | No applicable information available.  |
| Density                                | : | approx. 1.14 g/cm <sup>3</sup> (68 °F / 20 °C)                                  |
| Solubility(ies)                        |   |   |
| Water solubility                       | : | emulsifiable (68 °F / 20 °C)  |
| Solubility in other solvents           | : | No applicable information available.  |
| Partition coefficient: n-octanol/water | : | not applicable  |
| Autoignition temperature               | : | No data available   |
| Decomposition temperature              | : | No decomposition if stored and handled as prescribed/indicated.                 |
| Viscosity                              |   |   |
| Viscosity, dynamic                     | : | No applicable information available.  |

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|                      |   |  |
|----------------------|---|--|
| Viscosity, kinematic | : | No applicable information available.   |
| Explosive properties | : | Not explosive<br>Not explosive   |
| Oxidizing properties | : | Based on its structural properties the product is not classified as oxidizing. |
| Sublimation point    | : | No applicable information available.   |
| Molecular weight     | : | No data available  |
| Metal corrosion rate | : | Corrosive effects to metal are not anticipated.                                |

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**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<br>Strong bases<br>Strong oxidizing agents<br>Strong reducing agents  |
| Hazardous decomposition products   | : | No hazardous decomposition products if stored and handled as prescribed/indicated. |

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | Remarks: No applicable information available. |
| Acute inhalation toxicity | : | Remarks: No applicable information available. |
| Acute dermal toxicity     | : | Remarks: No applicable information available. |

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

|         |   |  |
|---------|---|--|
| Remarks | : | May cause skin irritation and/or dermatitis. |
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**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.

**Product:**

No aspiration hazard expected.

**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

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available



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**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****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**

No data available

**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, REACTION PRODUCT BISPHENOL-A)  
Class : 9  
Subsidiary risk : EHSM  
Packing group : III

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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, REACTION PRODUCT BISPHENOL-A)

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, REACTION PRODUCT BISPHENOL-A)

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**

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

ethylbenzene 100-41-4

**US State Regulations****Pennsylvania Right To Know**

|                         |            |
|-------------------------|------------|
| ethylbenzene            | 100-41-4   |
| Titanium dioxide listed | 13463-67-7 |



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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):  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA Z-1 / 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 associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

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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.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE

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