SECTION 1. IDENTIFICATION

Product name : MasterFlow 647R GROUT PART A
Product code : 000000000051358684 000000000051358684

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 :

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.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : No data available.

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
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<tbody>
<tr>
<td>Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin</td>
<td>25068-38-6</td>
<td>&gt;= 75 - &lt;= 100</td>
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<tr>
<td>(number average molecular weight &lt;= 700)</td>
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<tr>
<td>1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane</td>
<td>17557-23-2</td>
<td>&gt;= 5 - &lt; 7</td>
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</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

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

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.

Recommended storage temperature

41 °F / 5 °C

Further information on storage stability

Minimum storage temperature:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: white
Odor: characteristic, mild
Odor Threshold: No data available
pH: not applicable
Melting point: No applicable information available.
Boiling point: not applicable
Flash point: > 200 °F / > 93 °C
210.00 °F / 98.89 °C
Evaporation rate: No applicable information available.
Flammability (solid, gas): not determined
Upper explosion limit / Upper flammability limit: not applicable
Lower explosion limit / Lower flammability limit: not applicable
Vapor pressure: No applicable information available.
Relative vapor density: No applicable information available.
Relative density: No applicable information available.
Density: approx. 9.6 lb/USg (68 °F / 20 °C)
Bulk density: not applicable
Solubility(ies)
Water solubility: insoluble
Solubility in other solvents: No applicable information available.
Partition coefficient: n-octanol/water: No applicable information available.
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.

Explosive properties: 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

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: > 20,000 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.

**Product:**
Remarks : Causes sensitization.

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
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available

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.

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
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.
SAFETY DATA SHEET

MasterFlow 647R GROUT PART A

Version 1.0  Revision Date: 08/24/2020  SDS Number: 00000261482
Date of last issue: -  Date of first issue: 08/24/2020

Domestic regulation
49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

California Prop. 65

WARNING: This product can expose you to chemicals including benzene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. 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:

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<th>Flavor</th>
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<tr>
<td>Flammability</td>
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<td>Instability</td>
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HMIS® IV:

<table>
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<th>HEALTH</th>
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<th>PHYSICAL HAZARD</th>
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</table>

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

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
SAFETY DATA SHEET

MasterFlow 647R GROUT PART A

Revision Date: 08/24/2020
SDS Number: 000000261482

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