SAFETY DATA SHEET

1. Identification

Product identifier: USG Durock™ Brand RH-100™ Moisture Vapor Reducer - Part B
Other means of identification:
- SDS number: 14000020005
- Synonyms: Flooring Resin

Recommended use: Interior use.
Recommended restrictions: Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information:
- Company name: United States Gypsum Company
- Address: 550 West Adams Street, Chicago, Illinois 60661-3637
- Telephone: 1-800-874-4968
- Website: www.usg.com
- Emergency phone number: 1-800-424-9300 (CHEMTREC)

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards:
- Acute toxicity, oral: Category 4
- Acute toxicity, dermal: Category 4
- Acute toxicity, inhalation: Category 4
- Skin corrosion/irritation: Category 1A
- Serious eye damage/eye irritation: Category 1
- Sensitization, skin: Category 1

Environmental hazards:
- Hazardous to the aquatic environment, acute hazard: Category 3
- Hazardous to the aquatic environment, long-term hazard: Category 2

OSHA defined hazards: Not classified.

Label elements:

Signal word: Danger
Hazard statement: Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement:

Prevention:
- Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response:
- If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage:
- Store locked up.

Disposal:
- Dispose of contents/container in accordance with local/regional/national/international regulations.
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cashew, Nutshell Liq.</td>
<td>8007-24-7</td>
<td>30-40</td>
</tr>
<tr>
<td>1,3-Cyclohexanediethanamine</td>
<td>2579-20-6</td>
<td>15-20</td>
</tr>
<tr>
<td>Phenol, styrenated</td>
<td>61788-44-1</td>
<td>15-20</td>
</tr>
<tr>
<td>m-Phenylenediamine</td>
<td>1477-55-0</td>
<td>15-20</td>
</tr>
<tr>
<td>* TRADE SECRET</td>
<td>Proprietary</td>
<td>10-15</td>
</tr>
<tr>
<td>* TRADE SECRET</td>
<td>Proprietary</td>
<td>&lt; 2</td>
</tr>
</tbody>
</table>

Composition comments

All concentrations are in percent by weight.

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician.

Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Indication of immediate medical attention and special treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Not applicable.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods

Cool material exposed to heat with water spray and remove it if no risk is involved.

General fire hazards

No unusual fire or explosion hazards noted.
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**
Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions
Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

**Precautions for safe handling**
Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Minimize exposure to mists. Use proper lifting techniques.

**Conditions for safe storage, including any incompatibilities**
Store in a cool, dry place. Store in a closed container away from incompatible materials, food, or drinking water. Protect from moisture. Keep away from heat. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Keep containers closed when not in use.

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>m-Phenylenebis(methylamine)</td>
<td>Ceiling</td>
<td>0.1 mg/m3</td>
</tr>
<tr>
<td>(CAS 1477-55-0)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Type</th>
<th>Value</th>
</tr>
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<td>Components</td>
<td></td>
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</tr>
<tr>
<td>(CAS 1477-55-0)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Biological limit values**
No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**
No exposure standards allocated.

**US - California OELs: Skin designation**
m-Phenylenebis(methylamine) (CAS 1477-55-0) Can be absorbed through the skin.

**US - Tennessee OELs: Skin designation**
m-Phenylenebis(methylamine) (CAS 1477-55-0) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**
m-Phenylenebis(methylamine) (CAS 1477-55-0) Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards**
m-Phenylenebis(methylamine) (CAS 1477-55-0) Can be absorbed through the skin.

**Appropriate engineering controls**
Provide sufficient ventilation for operations causing mist formation. Observe occupational exposure limits and minimize the risk of exposure. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection**

**Hand protection**
It is a good industrial hygiene practice to minimize skin contact. Wear nitrile rubber gloves.

**Other**
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor mist respirator. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards
None.

General hygiene considerations
Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

| Physical state | Liquid. |
| Form | Liquid. |
| Color | Clear to Amber. |

Odor
Ammonia.

Odor threshold
Not applicable.

\(\text{pH}\)
Alkaline.

Melting point/freezing point
32 °F (0 °C)

Initial boiling point and boiling range
500 °F (260 °C)

Flash point
235.0 °F (112.8 °C) Pensky-Martens Closed Cup

Evaporation rate
Not applicable.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

| Flammability limit - lower (%) | Not applicable. |
| Flammability limit - upper (%) | Not applicable. |
| Explosive limit - lower (%) | Not applicable. |
| Explosive limit - upper (%) | Not applicable. |

Vapor pressure
Not applicable.

Vapor density
Not applicable.

Relative density
1 - 1.1 (H2O=1)

Solubility(ies)

| Solubility (water) | < 1 % |

Partition coefficient (n-octanol/water)
Not applicable.

Auto-ignition temperature
Not applicable.

Decomposition temperature
Not applicable.

Viscosity
Not applicable.

Other information

| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| VOC | 0 g/l |

10. Stability and reactivity

Reactivity
The product is stable and non reactive under normal conditions of storage and transport.

Chemical stability
Stable at normal conditions.

Possibility of hazardous reactions
Hazardous polymerization does not occur.
Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Elevated temperatures.

Incompatible materials
Strong oxidizing agents. Acids.

Hazardous decomposition products
None known.

11. Toxicological information

Information on likely routes of exposure

Inhalation
Harmful if inhaled.

Skin contact
Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.

Eye contact
Causes serious eye damage.

Ingestion
Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity
Harmful if swallowed, in contact with skin or if inhaled.

<table>
<thead>
<tr>
<th>Components</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Phenylenebis(methylamine) (CAS 1477-55-0)</td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
</tr>
<tr>
<td>LD50 Rabbit</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>LD50 Rat</td>
<td>930 mg/kg</td>
</tr>
</tbody>
</table>

Phenol, styrenated (CAS 61788-44-1)

<table>
<thead>
<tr>
<th>Components</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
</tr>
<tr>
<td>LD50 Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes severe skin burns.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization
Not classified but possible due to skin sensitization effect.

Skin sensitization
May cause an allergic skin reaction.

Germ cell mutagenicity
Not expected to be mutagenic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

NTP Report on Carcinogens
Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not regulated.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
No data available, but none expected.

Specific target organ toxicity - repeated exposure
No data available, but none expected.

Aspiration hazard
Not classified.

Chronic effects
Prolonged inhalation may be harmful.
12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol, styrenated (CAS 61788-44-1)</td>
<td>Algae</td>
<td>EL50 Algae (Challera vulgaris) 20.42 mg/l, 72 hours</td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50 Daphnia magna 4.6 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LL50 Fish 14.8 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

The product is partly soluble in water. May spread in the aquatic environment.

Other adverse effects

None expected.

13. Disposal considerations

Disposal instructions

Dispose waste and residues in accordance with applicable federal, state, and local regulations. Incineration is preferred. Do not discharge into drains, water courses or onto the ground.

Local disposal regulations

Dispose in accordance with all applicable regulations. Dispose of in accordance with local regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number UN2735
UN proper shipping name Amines, liquid, corrosive, n.o.s (1,3-Cyclohexanediethanolamine)
Class 8
Subsidiary risk -
Label(s) 8
Packing group I
Environmental hazards
Marine pollutant Yes
Special precautions for user
Special provisions A3, A6, B10, N34, T14, TP2, TP27
Packaging exceptions None
Packaging non bulk 201
Packaging bulk 243

IATA

UN number UN2735
UN proper shipping name Amines, liquid, corrosive, n.o.s (1,3-Cyclohexanediethanolamine)
Class 8
Subsidiary risk -
Packing group I
Environmental hazards Yes
ERG Code 8L
Special precautions for user
Special provisions A3, A6, B10, N34, T14, TP2, TP27

IMDG

UN number UN2735
UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-CYCLOHEXANEDIMETHANAMINE)
Class 8
Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Not established.

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Not regulated.

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations

US. Massachusetts RTK - Substance List
m-Phenylenebis(methylamine) (CAS 1477-55-0)

US. New Jersey Worker and Community Right-to-Know Act
m-Phenylenebis(methylamine) (CAS 1477-55-0)

US. Pennsylvania Worker and Community Right-to-Know Law
m-Phenylenebis(methylamine) (CAS 1477-55-0)

US. Rhode Island RTK
m-Phenylenebis(methylamine) (CAS 1477-55-0)

California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.
**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates this product complies with the inventory requirements administered by the governing country(s). A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

- **Issue date**: 30-November-2016
- **Revision date**: 19-June-2018
- **Version #**: 03
- **Further information**
  - NFPA Ratings:
    - Health: 3
    - Flammability: 1
    - Physical hazard: 0

**NFPA ratings**

![NFPA Ratings](image)

**Disclaimer**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.