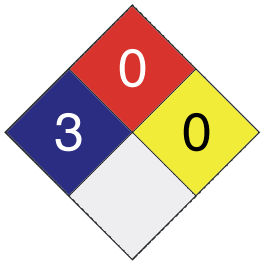
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

| | |
|---|---|
| **Product Name** | **DIP-IT® Automatic Drip Coffeemaker Cleaner (Liquid)** |
| **UPC CODES** | Refer to Section 16 |
| **CAS #** | Mixture |
| **Product use** | Cleaner |
| **Manufacturer** | Reckitt Benckiser<br>Morris Corporate Center IV<br>399 Interpace Parkway<br>P.O. Box 225<br>Parsippany, NJ 07054-0225<br>In Case of Emergency: 1-800-228-4722<br>Transportation Emergencies: 24 Hour Number:<br>North America: CHEMTREC: 1-800-424-9300<br>Outside North America: 1-703-527-3887 |

| LEGEND HMIS/NFPA | |
|---|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | | |
|---|---|---|
| Health | / | 3 |
| Flammability | | 0 |
| Physical Hazard | | 0 |
| Personal Protection | | D |




## 2. Hazards Identification

**Emergency overview**

CAUTION
MAY CAUSE EYE IRRITATION.
Avoid contact with eyes.

KEEP OUT OF REACH OF CHILDREN.

**Potential short term health effects**

| | |
|---|---|
| **Routes of exposure** | Eye, Skin contact, Inhalation, Ingestion. |
| **Eyes** | May cause severe irritation. |
| **Skin** | Substance causes moderate skin irritation. |
| **Inhalation** | Avoid prolonged breathing of vapor. |
| **Ingestion** | May be harmful if swallowed. Moderately toxic orally. |
| **Target organs** | Skin. Eyes. Respiratory system. |
| **Chronic effects** | Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis. |
| **Signs and symptoms** | The product causes burns of eyes, skin and mucous membranes. |

## 3. Composition / Information on Ingredients

| Ingredient(s) | CAS # | Percent |
|---|---|---|
| Sulfamic acid | 5329-14-6 | 2.5 - 10 |
| Citric Acid | 77-92-9 | 10 - 20 |

## 4. First Aid Measures

**First aid procedures**

| | |
|---|---|
| **Eye contact** | If in eyes, rinse with water. Remove contact lenses and continue to rinse eyes for at least 15 minutes. If irritation persists, get medical attention. |
| **Skin contact** | In case of skin contact, immediately flush exposed area with plenty of water for at least 15 minutes. Remove any contaminated clothing and wash thoroughly with soap and water. Get immediate medical attention if irritation persists. |

| | |
|---|---|
| **Inhalation** | Remove to fresh air. |
| **Ingestion** | If swallowed, DO NOT induce vomiting. Drink 1 to 2 glasses of water. DO NOT give bicarbonates. Contains sulfamic acid. Get medical attention IMMEDIATELY. |
| **Notes to physician** | If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately. |
| **General advice** | If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eyes and skin. Keep out of reach of children. |

## 5. Fire Fighting Measures

| | |
|---|---|
| **Flammable properties** | Not flammable by OSHA criteria. |
| **Extinguishing media** | |
| **Suitable extinguishing media** | Carbon dioxide. Water spray. Dry chemical. Foam. |
| **Unsuitable extinguishing media** | Not available |
| **Protection of firefighters** | |
| **Specific hazards arising from the chemical** | Not available |
| **Protective equipment for firefighters** | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| **Hazardous combustion products** | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur. |
| **Explosion data** | |
| **Sensitivity to mechanical impact** | Not available |
| **Sensitivity to static discharge** | Not available |

## 6. Accidental Release Measures

| | |
|---|---|
| **Personal precautions** | Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. |
| **Methods for containment** | Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapors or divert vapor cloud drift. |
| **Methods for cleaning up** | Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use. |

## 7. Handling and Storage

| | |
|---|---|
| **Handling** | Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing. |
| **Storage** | Keep out of the reach of children. Store in a closed container away from incompatible materials. |

## 8. Exposure Controls / Personal Protection

**Exposure limits**

| Ingredient(s) | Exposure Limits |
|---|---|
| Citric Acid | **ACGIH-TLV**<br>TWA: 10 mg/m3<br>**OSHA-PEL**<br>TWA: 10 mg/m3 |
| Sulfamic acid | **ACGIH-TLV**<br>Not established<br>**OSHA-PEL**<br>Not established |

**Engineering controls** General ventilation normally adequate.

**Personal protective equipment**

**Eye / face protection** Safety glasses recommended but not required.
Emergency responders should wear full eye and face protection.

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.
Emergency responders should wear impermeable gloves.

**Skin and body protection** As required by employer code.
Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

**General hygiene considerations** Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Clear. |
| **Color** | light green |
| **Form** | aqueous solution |
| **Odor** | Sweet / Slight |
| **Odor threshold** | Not available |
| **Physical state** | Liquid |
| **pH** | <1 (Acidic) |
| **Freezing point** | Not available |
| **Pour point** | Acidic |
| **Boiling point** | Not available |
| **Flash point** | Not available |
| **Evaporation rate** | Not available |
| **Flammability limits in air, lower, % by volume** | Not available |
| **Flammability limits in air, upper, % by volume** | Not available |
| **Vapor pressure** | Not available |
| **Vapor density** | Not available |
| **Specific gravity** | 1.12 (Water=1) |
| **Octanol/water coefficient** | Not available |
| **Solubility (H2O)** | Complete |
| **Auto-ignition temperature** | Not available |
| **Pour point** | Acidic |
| **Viscosity** | Water thin |

## 10. Stability and Reactivity

| | |
|---|---|
| **Chemical stability** | Stable under recommended storage conditions. |
| **Conditions to avoid** | Do not mix with anything but water.<br>Do not mix with other chemicals.<br>Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers. |
| **Incompatible materials** | Acids. Caustics. |
| **Hazardous decomposition products** | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur. |
| **Possibility of hazardous reactions** | Hazardous polymerization does not occur. |

## 11. Toxicological Information

**Component analysis - LC50**

| Ingredient(s) | LC50 |
|---|---|
| Citric Acid | Not available |
| Sulfamic acid | Not available |

**Component analysis - Oral LD50**

| Ingredient(s) | LD50 |
|---|---|
| Citric Acid | 5040 mg/kg mouse; 3000 mg/kg rat |
| Sulfamic acid | 1312 mg/kg mouse; 1050 mg/kg guinea pig; 3160 mg/kg rat |

**Effects of acute exposure**

| | |
|---|---|
| **Eye** | May cause severe irritation. |
| **Skin** | Substance causes moderate skin irritation. |
| **Inhalation** | Avoid prolonged breathing of vapor. |
| **Ingestion** | May be harmful if swallowed. Moderately toxic orally. |
| **Sensitization** | The finished product is not expected to have chronic health effects. |
| **Chronic effects** | The finished product is not expected to have chronic health effects. |
| **Carcinogenicity** | The finished product is not expected to have chronic health effects. |
| **Mutagenicity** | The finished product is not expected to have chronic health effects. |
| **Reproductive effects** | The finished product is not expected to have chronic health effects. |
| **Teratogenicity** | The finished product is not expected to have chronic health effects. |
| **Synergistic Materials** | Not available |

## 12. Ecological Information

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Fish Species Data**

| | | |
|---|---|---|
| Citric Acid | 77-92-9 | 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static] |
| Sulfamic acid | 5329-14-6 | 96 Hr LC50 Pimephales promelas: 14.2 mg/L [static] |

**Ecotoxicity - Microtox Data**

| | | |
|---|---|---|
| Citric Acid | 77-92-9 | 15 Min EC50 Photobacterium phosphoreum: 14 mg/L |

**Ecotoxicity - Water Flea Data**

| | | |
|---|---|---|
| Citric Acid | 77-92-9 | 72 Hr EC50 Daphnia magna: 120 mg/L |

| | |
|---|---|
| **Environmental effects** | Not available |
| **Aquatic toxicity** | Not available |
| **Persistence / degradability** | Not available |
| **Bioaccumulation / accumulation** | Not available |
| **Partition coefficient** | Not available |
| **Mobility in environmental media** | Not available |
| **Chemical fate information** | Not available |

## 13. Disposal Considerations

| | |
|---|---|
| **Waste codes** | Not available |
| **Disposal instructions** | Dispose in accordance with all applicable regulations. |
| **Waste from residues / unused products** | Not available |
| **Contaminated packaging** | Not available |

## 14. Transport Information

**U.S. Department of Transportation (DOT)**

UN3265, Corrosive Liquid, Acidic, Organic, NOS (Citric Acid, Sulfamic Acid)
Class 8, PG II, Limited Quantity Re-classed as Consumer Commodity ORM-D

**Transportation of Dangerous Goods (TDG - Canada)**

UN3265, Corrosive Liquid, Acidic, Organic, NOS (Citric Acid, Sulfamic Acid)
Class 8, PG II, Limited Quantity Re-classed as Consumer Commodity/Limited Quantity

**IMDG (Marine Transport)**

UN3265, Corrosive Liquid, Acidic, Organic, NOS (Citric Acid, Sulfamic Acid)
Class 8, PG II, Limited Quantity

**IATA/ICAO (Air)**

UN3265, Corrosive Liquid, Acidic, Organic, NOS (Citric Acid, Sulfamic Acid)
Class 8, PG II

## 15. Regulatory Information

**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous chemical** Yes

**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - New Jersey - Right to Know Hazardous Substance List**

| | | |
|---|---|---|
| Sulfamic acid | 5329-14-6 | sn 1770 |

**Inventory status**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

**Disclaimer**

This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Further information**

27443-36327 - DIP-IT® Automatic Drip Coffeemaker Cleaner Liquid - 7oz. - 377853

**Issue date** 18-Nov-2009

**Effective date** 15-Nov-2009

| | |
|---|---|
| **Prepared by** | Reckitt Benckiser Regulatory Department 800-333-3899 |
| **Other information** | For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document. |