6737.

# Safety Data Sheet

C32838

**Ring Out Shampoo** **MSDS No. 003**

Date of Preparation: February 8, 2016 revision 2

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Ring Out Shampoo– Ringworm & Fungus Control Shampoo
**Chemical Formula:** N/A
**Other Designations:** None
**General Use:** Reduction of Pathogens/General Purpose Antimicrobial Shampoo
**Manufacturer:** FlexTran, Inc., 215 S 2nd St., Suite 1B, Branson, MO 65616
**Telephone Number:** 417-334-3325
**Distributor:** FlexTran, Inc., 215 S. 2nd St, Suite 1B, Branson, MO 65616
**EPA Registration:** N/A
**Emergency Phone:** 417-334-3325, 813-205-2890

| HMIS | |
|---|---|
| H | 1 |
| F | 0 |
| P | 0 |
| PPE† | |
| †Sec. 8 | |

## Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | % wt |
|---|---|---|
| Phosphoric Acid | Proprietary | < 2 |
| Hydrochloric Acid | Proprietary | < 1 |
| Citric Acid | Proprietary | <2 |
| Detergent of Anionic/Nonionic/Amphoteric Blend | Proprietary | <20 |

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH |
|---|---|---|---|---|---|---|---|
| | TWA (8-hr) | STEL (15-min) | TWA (8-hr) | STEL (15-min) | TWA (10-hr) | STEL (15-min) | IDLH |
| Phosphoric Acid | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | N/A | N/A |
| Hydrochloric Acid | 7 mg/m³ | N/A | 7.5 mg/m³ | N/A | 7 mg/m³ | N/A | 100 ppm |
| Citric Acid | 15 mg/m³ *(particulates)* | N/A | 10 mg/m³ *(particulates)* | N/A | N/A | N/A | N/A |
| Detergent Blend & Water | | | | | | | |

## Section 3 - Physical and Chemical Properties

**Physical State:** Liquid
**Appearance and Odor:** Clear and odorless.
**Vapor Pressure:** 17.1 mm Hg at 20 °C
**Vapor Density (Air=1):** 1.2
**Specific Gravity ($H_2O$=1):** 1-1.12
**Volatile Organic Compounds:**
**Lbs/Gal:** < 0.1
**Grams/Liter:** < 10

**Water Solubility:** Completely at 25 °C
**pH @ 20°C:** 2-2.2 (approximate)
**Boiling Point:** >240 °F or >116 °C
**Freezing Point:** N/A
**Percent Volatile:** 96.8
**Evaporation Rate (nBuAc=1):** < 1
**Autoignition Temperature:** N/A
**Magnetism (milligauss):** N/A

## Section 4 - Fire-Fighting Measures

**Flash Point:** > 200 °F
**Flash Point Method:** Tag Closed Cup
**Burning Rate:** N/A
**Autoignition Temperature:** N/A
**Lower Explosion Limit (v/v):** N/A
**Upper Explosion Limit (v/v):** N/A
**Flammability Classification:** Non-Flammable
**Extinguishing Media:** Use water spray, fog, foam, dry chemical, or carbon dioxide for surrounding fire.
**Unusual Fire or Explosion Hazards:** Extreme heat or contact with common metals may liberate hydrogen gas, a flammable gas that readily forms explosive mixtures with air.

NFPA


**Hazardous Combustion Products:** In extremely rare cases, thermal oxidative decomposition can produce toxic chloride and phosphorous oxide ($PO_x$) fumes.
**Fire-Fighting Instructions:** None
**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

## Section 5 - Stability and Reactivity

**Stability:** Stable at room temperature in closed containers under normal storage conditions.
**Polymerization:** Hazardous polymerization may occur if exposed to aldehydes, epoxides and azo compounds.

**Chemical Incompatibilities:** Avoid contact with aldehydes, amines, amides, ammonia, alcohols, azo-compounds, carbamates, chlorine-containing compounds, esters, caustics, phenolics, ketones, epoxides, organic peroxides, sulfides, potassium permanganate, fluorine, carbides, acetate, nickel carbonate, aluminum, magnesium, zinc, galvanized steel, carbon steel

**Conditions to Avoid:** Avoid contact with incompatibles.

**Hazardous Decomposition Products:** Toxic chloride fumes and phosphorous oxide ($PO_x$) fumes.

## Section 6 - Health Hazard Information

### Potential Health Effects

**Primary Entry Routes:** Ingestion, inhalation, eyes, skin contact.
**Target Organs:** Skin, eyes and respiratory tract.
**Acute Effects** None reported.
**Carcinogenicity:** None of the ingredients in Ring Out Shampoo are listed as a carcinogen by the IARC, NTP, and OSHA.
**Medical Conditions Aggravated by Long-Term Exposure:** None reported.
**Chronic Effects:** None reported.

### Emergency and First Aid Procedures

**Inhalation:** Remove exposed person to fresh air and support breathing as needed.
**Eye Contact:** As a general rule, flush immediately, including under eyelids, with copious amounts of water for at least 15 min.
**Ingestion:** If alert give several glasses of water or milk. Do not induce vomiting. Contact poison control center or physician.

## Section 7 - Spill, Leak, and Disposal Procedures

**Spill /Leak Procedures:** Notify safety personnel. Neutralize spills with soda ash or lime. Follow OSHA regulations (29 CFR 1910.120)
**Small Spills:** Absorb with sand or vermiculite. Sweep and collect in ordinary container and dispose. Rinse area with water.
**Large Spills:** Shovel or sweep into large containers for disposal. Rinse area with water.
**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
**Disposal Regulatory Requirements:** Send to a permitted waste management facility.
**Container Cleaning and Disposal:** N/A (Containers can be reused after rinsing with water.)
**OSHA Regulations:** Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Listed for phosphoric acid and hydrochloric acid.
**EPA Regulations:**

| | |
|---|---|
| RCRA Hazardous Waste Number (40 CFR 261.23): | Listed, D002, Hydrochloric Acid, Corrosive. |
| CERCLA Hazardous Waste Classification (40 CFR 302.4): | Listed, Hydrochloric Acid and Phosphoric Acid |
| CERCLA Reportable Quantity (RQ): | 5000 lb |

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** None
**Ventilation:** Provide general or local explosion-proof exhaust ventilation to get airborne concentration below OSHA PELs.
**Administrative Controls:** None
**Respiratory Protection:** Not required under normal conditions. If necessary, follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
**Protective Clothing/Equipment:** For those with sensitive skin, wear protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse.

## Section 9 - Special Precautions and Comments

**Handling Precautions:** None
**Storage Requirements:** Store in a cool, dry, well-ventilated area away from heat, ignition sources, and incompatibles (Sec. 5).
**Comments:** Practice good personal hygiene after using this material.

## Section 10 – Transportation Information

**DOT Classification (49 CFR 173):** **Not Regulated**
**Special DOT Transportation Requirements (49 CFR 172):** **None**

**Prepared By:** Barry Ward **Revision Notes: N/A**

C32839

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# Safety Data Sheet

**Ring Out - Ringworm & Fungus Control** **MSDS No. 002**

Date of Preparation: February 8, 2016 revision 2

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Ring Out – Ringworm & Fungus Control

**Chemical Formula:** N/A
**Other Designations:** None
**General Use:** Reduction of Pathogens/General Purpose Antimicrobial Spray
**Manufacturer:** FlexTran, Inc., 215 S 2nd St., Suite 1B, Branson, MO 65616
**Telephone Number:** 417-334-3325
**Distributor:** FlexTran, Inc., 215 S. 2nd St, Suite 1B, Branson, MO 65616
**EPA Registration:** N/A
**Emergency Phone:** 417-334-3325, 813-205-2890

| HMIS | |
|---|---|
| H | 1 |
| F | 0 |
| P | 0 |
| PPE† | |
| †Sec. 8 | |

## Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | % wt |
|---|---|---|
| Phosphoric Acid | 7664-38-2 | < 6 |
| Hydrochloric Acid | 7647-01-0 | < 2 |
| Citric Acid | 77-92-9 | < 8 |
| Water | | |

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH |
|---|---|---|---|---|---|---|---|
| | TWA (8-hr) | STEL (15-min) | TWA (8-hr) | STEL (15-min) | TWA (10-hr) | STEL (15-min) | IDLH |
| Phosphoric Acid | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | N/A | N/A |
| Hydrochloric Acid | 7 mg/m³ | N/A | 7.5 mg/m³ | N/A | 7 mg/m³ | N/A | 100 ppm |
| Citric Acid | 15 mg/m³ (particulates) | N/A | 10 mg/m³ (particulates) | N/A | N/A | N/A | N/A |
| Water | | | | | | | |

## Section 3 - Physical and Chemical Properties

**Physical State:** Liquid
**Appearance and Odor:** Clear and odorless.
**Vapor Pressure:** 17.1 mm Hg at 20 °C
**Vapor Density (Air=1):** 1.2
**Specific Gravity ($H_2O$=1):** 1-1.12
**Volatile Organic Compounds:**
**Lbs/Gal:** < 0.1
**Grams/Liter:** < 10

**Water Solubility:** Completely at 25 °C
**pH @ 20°C:** 1.0 (approximate)
**Boiling Point:** >240 °F or >116 °C
**Freezing Point:** N/A
**Percent Volatile:** 96.8
**Evaporation Rate (nBuAc=1):** < 1
**Autoignition Temperature:** N/A
**Magnetism (milligauss):** N/A

## Section 4 - Fire-Fighting Measures

**Flash Point:** > 200 °F
**Flash Point Method:** Tag Closed Cup
**Burning Rate:** N/A
**Autoignition Temperature:** N/A
**Lower Explosion Limit (v/v):** N/A
**Upper Explosion Limit (v/v):** N/A
**Flammability Classification:** Non-Flammable
**Extinguishing Media:** Use water spray, fog, foam, dry chemical, or carbon dioxide for surrounding fire.
**Unusual Fire or Explosion Hazards:** Extreme heat or contact with common metals may liberate hydrogen gas, a flammable gas that readily forms explosive mixtures with air.

NFPA


**Hazardous Combustion Products:** In extremely rare cases, thermal oxidative decomposition can produce toxic chloride and phosphorous oxide ($PO_x$) fumes.
**Fire-Fighting Instructions:** None
**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

## Section 5 - Stability and Reactivity

**Stability:** Stable at room temperature in closed containers under normal storage conditions.
**Polymerization:** Hazardous polymerization may occur if exposed to aldehydes, epoxides and azo compounds.

**Chemical Incompatibilities:** Avoid contact with aldehydes, amines, amides, ammonia, alcohols, azo-compounds, carbamates, chlorine-containing compounds, esters, caustics, phenolics, ketones, epoxides, organic peroxides, sulfides, potassium permanganate, fluorine, carbides, acetate, nickel carbonate, aluminum, magnesium, zinc. galvanized steel, carbon steel

**Conditions to Avoid:** Avoid contact with incompatibles.

**Hazardous Decomposition Products:** Toxic chloride fumes and phosphorous oxide ($PO_x$) fumes.

## Section 6 - Health Hazard Information

### Potential Health Effects

**Primary Entry Routes:** Ingestion, inhalation, eyes, skin contact.
**Target Organs:** Skin, eyes and respiratory tract.
**Acute Effects** None reported.
**Carcinogenicity:** None of the ingredients in Ring Out are listed as a carcinogen by the IARC, NTP, and OSHA.
**Medical Conditions Aggravated by Long-Term Exposure:** None reported.
**Chronic Effects:** None reported.

### Emergency and First Aid Procedures

**Inhalation:** Remove exposed person to fresh air and support breathing as needed.
**Eye Contact:** As a general rule, flush immediately, including under eyelids, with copious amounts of water for at least 15 min.
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**Disposal Regulatory Requirements:** Send to a permitted waste management facility.
**Container Cleaning and Disposal:** N/A (Containers can be reused after rinsing with water.)
**OSHA Regulations:** Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Listed for phosphoric acid and hydrochloric acid.
**EPA Regulations:**

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|---|---|
| RCRA Hazardous Waste Number (40 CFR 261.23): | Listed, D002, Hydrochloric Acid, Corrosive. |
| CERCLA Hazardous Waste Classification (40 CFR 302.4): | Listed, Hydrochloric Acid and Phosphoric Acid |
| CERCLA Reportable Quantity (RQ): | 5000 lb |

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** None
**Ventilation:** Provide general or local explosion-proof exhaust ventilation to get airborne concentration below OSHA PELs.
**Administrative Controls:** None
**Respiratory Protection:** Not required under normal conditions. If necessary, follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
**Protective Clothing/Equipment:** For those with sensitive skin, wear protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse.

## Section 9 - Special Precautions and Comments

**Handling Precautions:** None
**Storage Requirements:** Store in a cool, dry, well-ventilated area away from heat, ignition sources, and incompatibles (Sec. 5).
**Comments:** Practice good personal hygiene after using this material.

## Section 10 – Transportation Information

**DOT Classification (49 CFR 173):** **Not Regulated**
**Special DOT Transportation Requirements (49 CFR 172):** **None**

**Prepared By:** Barry Ward **Revision Notes: N/A**