

### 1. IDENTIFICATION

**Product identifier:** FM Tolnaftate 1% Spray (Jock) Powder

**Synonym:** 205, 695

**Manufacturer Name:** Perrigo Company  
**Address:** 515 Eastern Avenue  
 Allegan, MI 49010 USA

**Telephone number:** 269-673-8451

**Emergency phone number:** 888-464-2986 (U.S. calls)  
 +1 760-476-3962 Code 333304 (International calls)

**Email Address:** SDSRequest@perrigo.com

**Recommended use:** Treatment of athlete's foot.

**Restrictions on use:** Use only as directed.

### 2. HAZARD(S) IDENTIFICATION

**Classification:**

Physical	Health
Flammable Aerosol Category 1 Gas Under Pressure: Compressed Gas	Eye Irritation Category 2

**Label Elements:**  
**Danger!**



**Hazard statement(s)**

Extremely flammable aerosol  
 Contains gas under pressure; may explode if heated.  
 Causes serious eye irritation.

**Precautionary statement(s)**

Keep away from heat, sparks, open flames and hot surfaces. No smoking.

**Precautionary statement(s)**

Do not spray on an open flame or other ignition source.  
 Do not pierce or burn, even after use.  
 Wash hands thoroughly after handling.  
 Wear eye protection.  
 IF in eyes: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.  
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Tolnaftate	2398-96-1	1%
Propellant (isobutane, propane)	75-28-5 / 74-98-6	>75%
Ethanol	64-17-5	5-15%
Aluminum Starch Octenyl Succinate	9087-61-0	Proprietary
Isopropyl Myristate	110-27-0	Proprietary
Talc	14807-96-6	Proprietary
Sorbitan Oleate	1338-43-8	Proprietary
Stearalkonium Hectorite	12691-60-0	Proprietary
Propylene Carbonate	108-32-7	Proprietary

The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**Inhalation:** Remove person to fresh air. If irritation occurs or symptoms develop, get medical attention.

**Skin contact:** This product is intended for use on the skin. If irritation develops and persists, discontinue use and get medical attention. Remove and contaminated clothing and launder it before reuse.

**Eye contact:** Immediately flush eyes with water while lifting the upper and lower lids for 15 minutes. Remove contact lenses, if present and easy to do after 5 minutes of flushing, then continue flushing. Get medical attention if irritation persists.

**Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention.

**Most important symptoms/effects, acute and delayed:** May cause eye irritation. Mild skin irritation is possible.

**Indication of immediate medical attention and special treatment, if necessary:** Immediate medical attention is not required.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use water fog or spray, carbon dioxide, dry chemical or alcohol-resistant foam.

**Specific hazards arising from the chemical:** Extremely flammable aerosol. Pressurized container may explode if heated. Vapors are heavier than air and can flow to remote ignition sources and flash back. Vapors may be explosive in confined areas. Vapors will collect in low areas. Vapors may be ignited by static sparks. Flames may be invisible in daylight.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water. Use shielding to protect from bursting cans.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate protective clothing and equipment as described in Section 8. Eliminate all ignition sources and ventilate the area with explosion-proof equipment.

**Environmental Precautions:** Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

**Methods and materials for containment and cleaning up:** Stop spill at the source if it is safe to do so. Absorb with an inert material. Use non-sparking tools and equipment. Collect into a suitable container for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid eye contact. Avoid breathing vapors. Use only with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and laundry before re-use. Keep product away from heat, sparks and all other sources of ignition. Do not smoke while using. Do not spray product near fire or heat or onto hot surfaces. Do not leave the can in direct sunlight. Do not puncture or incinerate container, even when empty.

**Conditions for safe storage, including any incompatibilities:** Store as indicated on product packaging at room temperature. Do not expose to temperatures above 50°C. Protect containers from physical damage. Store in a cool area. Keep away from excessive heat and open flames. Store out of direct sunlight. Store away from oxidizers. Level 3 Aerosol (NFPA 30B).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines:

Tolnaftate	Perrigo OEB1 (1000-3000 ug/m3)
Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV
Isobutane	1000 ppm STEL ACGIH TLV
Propane	1000 ppm TWA OSHA PEL
Aluminum Starch Octenyl Succinate	None Established
Isopropyl Myristate	None Established
Talc	2 mg/m3 (respirable) TWA ACGIH TLV 20 mppcf TWA OSHA PEL
Sorbitan Oleate	None Established
Stearalkonium Hectorite	None Established
Propylene Carbonate	None Established

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to minimize exposures levels. Use explosion-proof equipment where required.

### Individual protection measures:

**Respiratory protection:** None needed under normal use conditions. If exposure levels are exceeded or irritation is experienced, a NIOSH approved organic vapor or supplied air respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Skin protection:** This product is intended for use on the skin. Impervious gloves recommended for handling this product other than for use.

**Eye protection:** Chemical safety goggles recommended if needed to avoid eye contact.

**Other:** None known.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, color, etc.):** Off-white suspension in an aerosol container.

**Odor:** Alcohol odor

<b>Odor threshold:</b> 100 ppm (Ethanol)	<b>pH:</b> Not applicable
<b>Melting point/freezing point:</b> Not determined	<b>Boiling Point:</b> Not determined
<b>Flash point:</b> <-56°C (-68°F) (isobutane)	<b>Evaporation rate:</b> Not determined
<b>Flammability (solid, gas):</b> Extremely flammable aerosol.	<b>VOC:</b> Not determined
<b>Flammable limits: LEL:</b> 1.5% (isobutane)	<b>UEL:</b> 19% (ethanol)
<b>Vapor pressure:</b> 59.3 mmHg @ 25°C (ethanol)	<b>Vapor density:</b> 1.59 (ethanol)
<b>Relative density:</b> Not determined	<b>Solubility(ies):</b> Soluble in water
<b>Partition coefficient: n-octanol/water:</b> Not available	<b>Auto-ignition temperature:</b> Not available
<b>Decomposition temperature:</b> Not available	<b>Viscosity:</b> Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions of use.

**Chemical stability:** Stable.

**Possibility of hazardous reactions:** Reaction with strong oxidizers will generate heat and cause fire.

**Conditions to avoid:** Avoid heat, sparks, flames, and all other sources of ignition. Pressurized container – protect from sunlight and heat.

**Incompatible materials:** Avoid oxidizing agents, acids and bases.

**Hazardous decomposition products:** Thermal decomposition may yield carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Acute effects of exposure:**

**Inhalation:** Inhalation of vapors may cause irritation of the mucous membranes and upper respiratory tract and central nervous system effects such as dizziness, drowsiness and headache.

**Ingestion:** Swallowing may cause gastrointestinal irritation and nervous system effects such as drowsiness and dizziness.

**Skin contact:** No adverse effects are expected. Minor irritation is possible.

**Eye contact:** Contact may cause irritation with redness, pain and tearing.

**Chronic Effects:** None known.

**Sensitization:** Components are not known to be sensitizers.

**Germ Cell Mutagenicity:** No adverse effects are expected. Components are not germ cell mutagens.

**Reproductive Toxicity:** No adverse effects are expected. Components are not reproductive toxins.

**Carcinogenicity:** None of the components are listed as carcinogens by IARC, NTP or OSHA.

**Acute Toxicity Values:**

Tolnaftate: LD50 oral rat >5000 mg/kg

Ethanol: LD50 oral rat 7060 mg/kg; LC50 inhalation rat 20000 ppm/10 hr.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity values:** No data is available.

**Persistence and degradability:** No data is available

**Bioaccumulative potential:** No data is available

**Mobility in soil:** No data is available.

**Other adverse effects:** None known.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, state and federal regulations. No specific disposal method is recommended.

**14. TRANSPORT INFORMATION**

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
<b>DOT</b>	UN1950	Aerosols	2.1	None	No
<b>TDG</b>	UN1950	Aerosols	2.1	None	No
<b>IMDG</b>	UN1950	Aerosols	2.1	None	No
<b>IATA</b>	UN1950	Aerosols, flammable	2.1	None	No

Note: This product may be eligible for transport as a Limited Quantity or Consumer Commodity.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known.

**15. REGULATORY INFORMATION**

**Safety, health, and environmental regulations specific for the product in question.**

**CERCLA:** This product is not subject to CERCLA release reporting. Many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute Health, Fire Hazard, Sudden Release of Pressure.

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:  
None

**EPA TSCA Inventory:** This product is a drug and not subject to TSCA.

**CANADA:**

**Canadian CEPA:** This product is a drug and not subject to CEPA regulations.

**16. OTHER INFORMATION**

**NFPA Rating:** Health = 1      Flammability = 4      Instability = 0  
**HMIS Rating:** Health = 1      Flammability = 4      Physical Hazard = 0

**SDS Revision History:** Convert to OSHA Hazcom 2012 format and content

**Date of preparation:** January 7, 2016

**Disclaimer:** This SDS has been prepared for occupational exposure. Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer’s directions. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy of the information contained therein, and assume no responsibility regarding the suitability of this information for the user’s intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).