

### 1. IDENTIFICATION

**Product identifier:** Maximum Strength Lice Killing Shampoo  
**Synonym:** 866

**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:** Lice Shampoo  
**Restrictions on use:** Use as directed.

### 2. HAZARD(S) IDENTIFICATION

**Classification:**

Physical	Health
Not hazardous	Eye Irritation Category 2A

**Label Elements:**  
**Warning!**



**Hazard statement(s)**

Causes serious eye irritation.

**Precautionary statement(s)**

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.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Piperonyl Butoxide	51-03-6	4%
Pyrethrins	8003-34-7	0.33%
Water	7732-18-5	Proprietary
Polyoxyethylene (1,1,3,3-tetramethyl butyl) phenyl ether	9036-19-5	10-15%
Benzyl Alcohol	100-51-6	1-5%
Aliphatic Petroleum Distillates	64742-47-8	1-5%
Xanthan Gum	11138-66-2	Proprietary

Fragrance	Mixture	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:** Wash with soap and water. If irritation or rash develops and persists, get medical attention. Remove and contaminated clothing and launder it before reuse.

**Eye contact:** Flush eyes with water for 15 minutes while lifting the upper and lower lids. Remove contact lenses if present and easy to do, then continue rinsing. 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 if large amount is swallowed.

**Most important symptoms/effects, acute and delayed:** Causes eye irritation. Ingestion may cause intestinal upset with nausea and vomiting and nervous system effects.

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

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use any media that is suitable for the surrounding fire.

**Specific hazards arising from the chemical:** Product is not flammable or combustible but may burn in a fire after the water has evaporated.

**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.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate protective clothing and equipment as described in Section 8. Caution – slip hazard may exist.

**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:** Contain and collect with an inert absorbent material. Place in appropriate container for disposal. Clean area thoroughly.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid the generation of mists. Avoid contact with eyes, skin and clothing. Rinse thoroughly with water after handling.

**Conditions for safe storage, including any incompatibilities:** Store as indicated on product packaging between 20 and 22°C. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines:

Piperonyl Butoxide	None Established
Pyrethrins	5 mg/m <sup>3</sup> TWA OSHA PEL and ACGIH TLV
Polyoxyethylene (1,1,3,3-tetramethyl butyl) phenyl ether	None Established
Benzyl Alcohol	10 ppm TWA AIHA WEEL
Aliphatic Petroleum Distillates	None Established
Xanthan Gum	None Established
Fragrance	None Established

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to minimize exposures levels.

### Individual protection measures:

**Respiratory protection:** None needed under normal use conditions. If exposure levels are excessive and irritation is experienced, a NIOSH approved organic vapor/particulate 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:** Impervious gloves recommended if needed to avoid prolonged contact and for bulk processing.

**Eye protection:** Chemical safety goggles recommended if needed to avoid eye contact and for bulk processing.

**Other:** None known.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, color, etc.):** Light yellow liquid

**Odor:** Sweet citrus

<b>Odor threshold:</b> Not determined	<b>pH:</b> 5.6
<b>Melting point/freezing point:</b> Not determined	<b>Boiling Point:</b> Not determined
<b>Flash point:</b> >200°F (93.3°C)	<b>Evaporation rate:</b> Same as water
<b>Flammability (solid, gas):</b> Not applicable	<b>VOC:</b> Not determined
<b>Flammable limits: LEL:</b> None	<b>UEL:</b> None
<b>Vapor pressure:</b> Same as water	<b>Vapor density:</b> Same as water
<b>Relative density:</b> Not available	<b>Solubility(ies):</b> Not determined
<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 available

## 10. STABILITY AND REACTIVITY

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

**Chemical stability:** Stable.

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** None known.

**Incompatible materials:** Avoid oxidizing agents.

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

## 11. TOXICOLOGICAL INFORMATION

### Acute effects of exposure:

**Inhalation:** Inhalation of mists may cause minor irritation of the mucous membranes and upper respiratory tract.

**Ingestion:** Swallowing may cause gastrointestinal distress with nausea and diarrhea and nervous system effects such as excitation, twitching and tremors.

**Skin contact:** May cause irritation on prolonged contact.

**Eye contact:** Contact causes irritation with redness, swelling and tearing.

**Chronic Effects:** None known.

**Sensitization:** Some individuals may be sensitive to pyrethrins although they are not classified as skin sensitizers.

**Germ Cell Mutagenicity:** Components are not germ cell mutagens.

**Reproductive Toxicity:** Ingredients are not reproductive toxins.

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

### Acute Toxicity Values:

Piperonyl Butoxide: LD50 oral rat 4570 mg/kg, LD50 dermal rat >2000 mg/kg.

Pyrethrins: LD50 oral rat 1030 mg/kg; LD50 dermal rat 2000 mg/kg

Polyoxyethylene (1,1,3,3-tetramethyl butyl) phenyl ether: LD50 oral rat 2800 mg/kg

Benzyl Alcohol: LD50 oral rat 1620 mg/kg

## 12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms.

**Ecotoxicity values:** Piperonyl Butoxide: LC50 daphnia magna 0.51 mg/L/48 hr; LC50 rainbow trout 1.9 mg/L/96 hr.

Pyrethrins: LC50 daphnia magna 0.01 mg/L/48 hr; LC50 rainbow trout 0.0051 mg/L/96 hr.

Polyoxyethylene (1,1,3,3-tetramethyl butyl) phenyl ether: EC50 algae 0.21 mg/L/96 hr.

**Persistence and degradability:** Pyrethrins have low persistence in the environment. Polyoxyethylene (1,1,3,3-tetramethyl butyl) phenyl ether is not readily biodegradable.

**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. Non-refillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## 14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	None	Not Regulated			
TDG	None	Not Regulated			
IMDG	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (Piperonyl Butoxide, Pyrethrins)	9	III	Marine Pollutant

<b>IATA</b>	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (Piperonyl Butoxide, Pyrethrins)	9	III	Yes
-------------	--------	--	---	-----	-----

Note: This product is classified as a Marine Pollutant (Environmentally Hazardous Substance) in accordance with the IMDG Code and the UN Model Regulations. However, it is packaged in either single packages or inner packagings in combination packages containing net quantities of less than 5 kg/5 L (IMDG Code 2.10.2.7; ICAO Special Instruction A197, 49CFR 171.4(c)(2)). Shipment may be regulated if contents are removed from inner packaging and combined into containers exceeding 5 L or 5 kg.

**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.

<b>15. REGULATORY INFORMATION</b>
-----------------------------------

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

**CERCLA:** Pyrethrins have an RQ of 1 lb. 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

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:  
Piperonyl butoxide 4%

**EPA TSCA Inventory:** All components are listed on the TSCA inventory.

<b>16. OTHER INFORMATION</b>
------------------------------

**NFPA Rating:** Health = 2      Flammability = 0      Instability = 0  
**HMIS Rating:** Health = 2      Flammability = 0      Physical Hazard = 0

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

**Date of Preparation:** January 30, 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).