



Material Safety Data Sheet

Issuing Date 30-Jan-2012

Revision Date 30-Jan-2012

Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name COMPLETE LICE TREATMENT KIT

Recommended Use Personal care.

Supplier Address

Perrigo Company
515 Eastern Ave
Allegan, MI 49010 US
Contact Phone: 269.673.8451

Company Emergency Phone Number 888.464.2986

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Consumers: Refer to the package insert for consumer-specific information about the directional use and effects of this product.

Only information about the ingredients that are expected to contribute to the potential health effects of the product are included in this MSDS.

Do not use if printed seal under cap is broken or missing

Flammable Aerosol

May be harmful if swallowed, inhaled, or absorbed through skin

May produce an allergic reaction

May cause skin irritation and/or dermatitis

Risk of serious damage to eyes

Severe eye irritation

Vapors may be irritating to eyes, nose, throat, and lungs

May cause adverse kidney effects

Appearance White to off-white

Physical State Liquid spray, Aerosol.

Odor Mild chemical

OSHA Regulatory Status

Over-the counter drugs in their final form as sold to the consumer are considered exempt under the criteria of the Federal OSHA Communication Standard 29CFR1910.1200. **However, occupational exposure limits might be exceeded in the industrial environment.**

Potential Health Effects

Principle Routes of Exposure

Skin contact. Inhalation.

Acute Toxicity

Eyes

Skin

Avoid contact with eyes. Risk of serious damage to eyes.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation. See package insert for further information.

Inhalation

Ingestion

May be harmful if inhaled. May cause irritation of respiratory tract.

See package insert for further information. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Aggravated Medical Conditions	Allergies. Skin disorders.
Interactions with Other Chemicals	Irritants. Sensitizers. Epoxies.
Environmental Hazard	See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	60-100
Supplier Trade Secret	Proprietary	10.0-30.0
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	9036-19-5	10.0-30.0
Supplier Trade Secret	Proprietary	5.0-10.0
Supplier Trade Secret	Proprietary	5.0-10.0
Supplier Trade Secret	Proprietary	1.0-5.0
Piperonyl butoxide	51-03-6	1.0-5.0
Benzyl alcohol	100-51-6	1.0-5.0
Glycerin	56-81-5	1.0-5.0
Hydroxyethylcellulose	9004-62-0	1.0-5.0
Petroleum distillates, hydrotreated light	64742-47-8	1.0-5.0
Xanthan gum	11138-66-2	1 - 5
Quaternary ammonium compounds, cocoalkyl (2,3-dihydroxypropyl)dimethyl, 3-ether w/ cellulose...	130353-64-9	0.1 - 1
Pyrethrum	8003-34-7	0.1-1.0
5,5-Dimethylhydantoin	77-71-4	0.1 - 1
Fragrance products	RR-29431-5	0.1 - 1
Polysorbate 20	9005-64-5	0.1-1.0
Supplier Trade Secret	Proprietary	0.1-1.0
Dimethylol-5,5-dimethylhydantoin	6440-58-0	0.0-0.1
2,4-Imidazolidinedione, 1-(hydroxymethyl)-5,5-dimethyl-	116-25-6	< 0.1
Fragrance (Irritating to the eyes, skin and respiratory system)	Fragrance	< 0.1
2,4-Imidazolidinedione, 3-(hydroxymethyl)-5,5-dimethyl-	16228-00-5	< 0.1
3-Iodo-2-propynyl butylcarbamate	55406-53-6	0.0-0.1
1,3-Butanediol	107-88-0	0.0-0.1

4. FIRST AID MEASURES

Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician. In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
Inhalation	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Call a physician or Poison Control Center immediately.
Notes to Physician	Keep victim warm and quiet. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Flammable aerosol. Containers may explode when heated.
Flash Point	Not applicable.
Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO ₂ . Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.
Uniform Fire Code	<ul style="list-style-type: none">• Aerosols: Level III• Sensitizer: Liquid• Irritant: Liquid
Hazardous Combustion Products	Carbon oxides. Nitrogen oxides (NO _x).
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.
Specific Hazards Arising from the Chemical	
Some may burn but none ignite readily. Ruptured cylinders may rocket. Product is or contains a sensitizer.	
Protective Equipment and Precautions for Firefighters	
Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Stop leak if you can do it without risk. Avoid contact with skin, eyes and clothing.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Use personal protective equipment.
Other Information	Ventilate the area.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. Keep away from heat and sources of ignition. Store at room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Supplier Trade Secret	TWA: 5 mg/m ³ inhalable fraction excluding metal working fluids, highly & severely refined	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³
Glycerin 56-81-5	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	
Petroleum distillates, hydrotreated light 64742-47-8	TWA: 5 mg/m ³ STEL: 10 mg/m ³ (as oil mist)	TWA: 5 mg/m ³ (as oil mist)	
Pyrethrum 8003-34-7	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Engineering Measures

None under normal use conditions. For home use. Ensure that eyewash stations and safety showers are close to the workstation location. Apply technical measures to comply with the occupational exposure limits.

Personal Protective Equipment

Eye/Face Protection

None required for consumer use. Safety glasses with side shields are recommended for medical or industrial exposures.

Skin and Body Protection

None required for consumer use. Gloves and lab coats are recommended for medical or industrial exposures.

Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white.	Odor	Mild chemical.
Odor Threshold	No information available.	Physical State	Liquid spray Aerosol
pH	4.7		
Flash Point	Not applicable.	Autoignition Temperature	No information available
Decomposition Temperature	No information available	Boiling Point/Range	No information available
Melting Point/Range	No information available		
Flammability Limits in Air	No information available	Explosion Limits	No information available
Water Solubility	Soluble in water.	Solubility	No information available
Evaporation Rate	No information available	Vapor Pressure	No data available
Vapor Density	No data available	VOC Content (%)	5.053
Partition Coefficient: n-octanol/water			

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents.
Conditions to Avoid	Heat, flames and sparks.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx).
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90090 mg/kg (rat)	-	-
Supplier Trade Secret	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phe nyl]-.omega.-hydroxy-	= 4190 mg/kg (Rat)	-	-
Supplier Trade Secret	> 5000 mg/kg (Rat)	-	-
Supplier Trade Secret	= 383 mg/kg (Rat)	= 1750 mg/kg (Rat) > 2 g/kg (Rabbit)	-
Piperonyl butoxide	= 6150 mg/kg (Rat)	> 7950 mg/kg (Rat)	-
Benzyl alcohol	= 1230 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
Glycerin	= 12600 mg/kg (Rat)	> 21900 mg/kg (Rat)	570 mg/m ³ (Rat) 1 h
Petroleum distillates, hydrotreated light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Pyrethrum	= 200 mg/kg (Rat)	= 300 mg/kg (Rabbit) = 1350 mg/kg (Rat)	-
5,5-Dimethylhydantoin	= 7800 mg/kg (Rat)	-	-
Polysorbate 20	= 36700 µL/kg (Rat)	-	-
Supplier Trade Secret	= 2100 mg/kg (Rat)	-	-
Dimethylol-5,5-dimethylhydantoin	= 2 g/kg (Rat)	-	-
1,3-Butanediol	= 18610 mg/kg (Rat)	> 20 g/kg (Rabbit)	-

Chronic Toxicity

Chronic Toxicity	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
-------------------------	---

Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
------------------------	--

Chemical Name	ACGIH	IARC	NTP	OSHA
Supplier Trade Secret	A2			
Supplier Trade Secret		Group 3		
Piperonyl butoxide		Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects	Skin.
-----------------------------	-------

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phe nyl]-.omega.-hydroxy-	Group III Chemical		Industrial chemical
Supplier Trade Secret	Group III Chemical		Pesticide
Piperonyl butoxide	Group III Chemical		
Pyrethrum			Pesticide

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Supplier Trade Secret		LC50: 45 mg/L (96 h flow-through) Pimephales promelas LC50: 2.4 mg/L (96 h static) Oncorhynchus mykiss LC50: 2.2 mg/L (96 h static) Lepomis macrochirus		LC50: 4720 mg/L Den-dronereides heteropoda 96 h
Supplier Trade Secret		LC50: > 10000 mg/L (96 h) Lepomis macrochirus		
Supplier Trade Secret		LC50: 0.0108 mg/L (96 h) Lepomis macrochirus LC50: 0.015 mg/L (96 h flow-through) Cyprinus carpio LC50: 0.0052-0.0077 mg/L (96 h) Cyprinus carpio LC50: 0.00079 mg/L (96 h flow-through) Lepomis macrochirus LC50: 0.00049-0.00097 mg/L (96 h flow-through) Oncorhynchus mykiss LC50: 0.00188-0.00336 mg/L (96 h static) Lepomis macrochirus LC50: 0.0017-0.0048 mg/L (96 h static) Oncorhynchus mykiss LC50: 0.001-0.009 mg/L (96 h static) Pimephales promelas LC50: 0.008-0.03 mg/L (96 h flow-through) Pimephales promelas		
Benzyl alcohol	EC50: 35 mg/L (3 h) Anabaena variabilis	LC50: 10 mg/L (96 h static) Lepomis macrochirus LC50: 460 mg/L (96 h static) Pimephales promelas	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	EC50: 23 mg/L (48 h) water flea
Glycerin		LC50: 51 - 57 mL/L (96 h static) Oncorhynchus mykiss		EC50: > 500 mg/L (24 h) Daphnia magna
Petroleum distillates, hydrotreated light		LC50: 45 mg/L (96 h flow-through) Pimephales promelas LC50: 2.4 mg/L (96 h static) Oncorhynchus mykiss LC50: 2.2 mg/L (96 h static) Lepomis macrochirus		LC50: 4720 mg/L (96 h) Den-dronereides heteropoda

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Pyrethrum		LC50: 0.003-0.0046 mg/L (96 h flow-through) <i>Lepomis macrochirus</i> LC50: 0.224-0.458 mg/L (96 h static) <i>Pimephales promelas</i> LC50: 0.074 mg/L (96 h) <i>Lepomis macrochirus</i> LC50: 0.02-0.03 mg/L (96 h static) <i>Oncorhynchus mykiss</i> LC50: 0.0322-0.0472 mg/L (96 h static) <i>Lepomis macrochirus</i> LC50: 0.0425-0.121 mg/L (96 h flow-through) <i>Pimephales promelas</i> LC50: 0.054 mg/L (96 h) <i>Oncorhynchus mykiss</i> LC50: 0.0031-0.0038 mg/L (96 h flow-through) <i>Oncorhynchus mykiss</i>		
5,5-Dimethylhydantoin		LC50: 14600-18500 mg/L (96 h flow-through) <i>Pimephales promelas</i>		
Supplier Trade Secret		LC50: 420-558 mg/L (96 h flow-through) <i>Pimephales promelas</i> LC50: > 100 mg/L (96 h static) <i>Pimephales promelas</i>	EC50 = 500 mg/L 24 h	EC50: < 650 mg/L (48 h) <i>Daphnia magna</i>
3-Iodo-2-propynyl butylcarbamate		LC50: 0.049-0.079 mg/L (96 h flow-through) <i>Oncorhynchus mykiss</i> LC50: 0.05-0.089 mg/L (96 h) <i>Oncorhynchus mykiss</i> LC50: 0.18-0.23 mg/L (96 h flow-through) <i>Pimephales promelas</i> LC50: 0.14-0.32 mg/L (96 h flow-through) <i>Lepomis macrochirus</i>		

Chemical Name	Log Pow
Supplier Trade Secret	6.006
Supplier Trade Secret	2.8
Benzyl alcohol	1.1
Glycerin	-1.76
Supplier Trade Secret	-2.13

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
3-Iodo-2-propynyl butylcarbamate - 55406-53-6	(hazardous constituent - no waste number)			

California Hazardous Waste Codes 232

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Supplier Trade Secret			Toxic	
Pyrethrum			Toxic	

14. TRANSPORT INFORMATION

Emergency Response Guide Number 126

DOT

Description UN1950, Aerosols, *flammable*, 2.1

TDG

Description UN1950, AEROSOLS, *flammable*, 2.1

MEX

Description UN1950 Aerosols, *flammable*, 2.1

ICAO

Description UN1950, Aerosols, *flammable*, 2.1

IATA

Description UN1950, Aerosols, *flammable*, 2.1

IMDG/IMO

Description UN1950, Aerosols, *flammable*, 2.1

International Inventories

TSCA	Exempt
DSL	Does not Comply

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Supplier Trade Secret		1.0-5.0	1.0
Piperonyl butoxide	51-03-6	1.0-5.0	1.0
3-Iodo-2-propynyl butylcarbamate	55406-53-6	0.0-0.1	1.0

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Pyrethrum	1 lb			

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depleters	Class 2 Ozone Depleters
Benzyl alcohol	100-51-6	1.0-5.0		Group III		
Glycerin	56-81-5	1.0-5.0		Group II		

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Pyrethrum	1 lb	

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Piperonyl butoxide		X			X
Supplier Trade Secret	X	X			X
Glycerin	X	X	X		X
Supplier Trade Secret	X	X	X		

International Regulations**Mexico - Grade**

Serious risk, Grade 3

Chemical Name	Carcinogen Status	Exposure Limits
Glycerin		Mexico: TWA 10 mg/m ³
Supplier Trade Secret		Mexico: TWA 5 mg/m ³ Mexico: STEL 10 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not regulated under CEPA

Not subject to WHMIS classification

16. OTHER INFORMATION

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 30-Jan-2012

Revision Date 30-Jan-2012

Revision Note No information available

General Disclaimer

This MSDS 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 the 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 purposes(s).

End of Safety Data Sheet