

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

EPA REG. NO:	1021-1800-84813		
PRODUCT NAME:	All Clear™ Mosquito Mister Concentrate		
PRODUCT DESCRIPTION:	A micro-emulsion, water-based spray with Pyrethrins.		
CHEMICAL NAME:	Mixture		
MANUFACTURER:	Universal Pest Solutions, LLC, 5950 Berkshire Lane, Suite 1250, Dallas, Texas 75225		
TELEPHONE M-F, 9:00-5:00 EST:	888-9NO-BITE or (888) 966-2483		
MSDS & Product Information M-F, 9:00-5:00 EST:	888-9NO-BITE or (888) 966-2483		
CHEMTREC U.S. and CANADA:	(800)-424-9300	CHEMTREC (ALL OTHER AREAS):	(703) 527-3887
FOR INFORMATION REGARDING MEDICAL EMERGENCIES OR PESTICIDE INCIDENTS CALL THE INTERNATIONAL POISON CENTER AT:			
1-888-740-8712 in U.S and CANADA or 952-852-9509 from all other areas			

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

CAUTION. OSHA-COMBUSTIBLE LIQUID. DO NOT use or store near heat, sparks, open flame, or any other ignition sources. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, and clothing.

EYES:	May cause temporary irritation, tearing, and blurred vision.
SKIN:	Can cause skin irritation. Can cause a burning or pricking sensation on more sensitive areas (face, eyes, mouth). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
SKIN ABSORPTION:	Harmful if absorbed through the skin.
INGESTION:	Harmful if swallowed.
INHALATION:	Excessive inhalation of mists can cause nasal and respiratory irritation.
CHRONIC EFFECTS:	None known.
CARCINOGENICITY:	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.
Carcinogenicity/ Oncogenicity: Pyrethrins and PBO	Pyrethrum has been tested in chronic feeding studies in mice and rats. Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following high doses of Pyrethrum. Further detailed scientific studies into the mechanism causing these responses indicate that these effects in the animals only occur at doses greatly exceeding the likely human exposure levels. Thus, the effects seen in animals are of little relevance to humans. Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The doses at which tumors were observed for pyrethrum and PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceed anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EXPOSURE LIMITS	SARA Title III Sec. 313 de minimus conc.	% BY WEIGHT
Pyrethrins	008003-34-7	5 mg/m ³ (OSHA, ACGIH)	Not Applicable	3.00
Piperonyl Butoxide	000051-03-6	Not established	1.00	30.0
Glycol Ethers	000112-34-5	Not established	1.00	< 2.00
Synthetic Isoparaffinic Hydrocarbons	064742-48-9	300 ppm TWA (Supplier)	Not Applicable	< 4.00
PEL = Permissible Exposure Limits.		TWA = Time Weighted Average (8 hr).		
TLV = Threshold Limit Value.		STEL = Short Term Exposure Limit (15 min.).		
COMMENTS: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.				

4. FIRST-AID MEASURES

FIRST AID PROCEDURES:

EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
SKIN:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
INHALATION:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
INGESTION:	Immediately call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.
NOTE TO PHYSICIANS:	For skin effects, a highly efficient therapeutic agent for Pyrethrin exposure is topical application of Tocopherol Acetate (Vitamin E).

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 163 °F / 72.8 °C **METHOD:** TAG Closed Cup

This product is classified as an **OSHA-COMBUSTIBLE LIQUID**.

LOWER FLAMMABLE LIMIT: not established. **UPPER FLAMMABLE LIMIT:** not established.

AUTOIGNITION TEMPERATURE: not established.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions this product will support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical.

FIRE FIGHTING INSTRUCTIONS: Treat as an oil fire. Keep personal removed and upwind of fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water spray. Contain the run-off, if possible, for proper disposal.

6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

WASTE DISPOSAL METHOD: Contaminated absorbent and wash water should be disposed of according to local, state, and federal regulations.

RCRA \ CERCLA HAZARDOUS WASTE:

INGREDIENT	RCRA ID#:	CERCLA RQ-VALUE
Pyrethrins		1 Lb.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: DO NOT APPLY THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD. Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Take prudent precautions to avoid contact with skin, eyes, and clothing. Do not contaminate water, food or feedstuffs by storage, handling or disposal. Read and observe all precautions and instructions on the label.

STORAGE: Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, sparks, open flame, any ignition sources, and strong oxidizers. Emptied containers may retain product residues.
KEEP OUT OF REACH OF CHILDREN.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA! Wash Promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Not established by OSHA or ACGIH (see Section 2 for individual components).

ENGINEERING CONTROLS: Ventilate treatment area thoroughly before re-entry.

RESPIRATORY PROTECTION: Not required.

SKIN PROTECTION: Take prudent precautions to avoid contact with skin and clothing.

EYE PROTECTION: Take prudent precautions to avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Amber liquid.	MELTING POINT:	Not available
ODOR:	Odor of petroleum distillates.	SOLUBILITY IN WATER:	Miscible in water.
PHYSICAL STATE:	Liquid	SPECIFIC GRAVITY:	1.024 (water = 1.0) @ 20°C (68°F)
VAPOR PRESSURE:	Not available	COLOR, (GARDNER):	Not available
VAPOR DENSITY:	Heavier than air.	pH:	5.25 @ 10% in H ₂ O.
BOILING POINT:	Not available	VISCOSITY:	99.2 CPS @ 23.0°C (73.4°F) Brookfield
VOC:	<17%	REFRACTIVE INDEX:	1.4810 @ 25°C (77°F)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. **INCOMPATIBILITY:** Strong acidic or alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS: NO, NO₂, CO, CO₂ gases **HAZARDOUS POLYMERIZATION:** Will not occur.

11. OTHER INFORMATION

HMIS RATINGS:

We assign HMIS ratings to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in Section's 7 and 8 of this MSDS.

HMIS RATINGS:

Health	2
Flammability	2
Reactivity	1

The data contained herein are based on information currently available to Universal Pest Solutions, LLC and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which Universal Pest Solutions, LLC assumes legal responsibility.

Material Safety Data Sheet prepared by J. Lear