

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007452

SHOCKWAVE™ Fogging Concentrate

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Revision Date: 11/16/2007

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE:	007452, EPA REG. NO.: 1021-1810		
PRODUCT NAME:	SHOCKWAVE™ Fogging Concentrate		
PRODUCT DESCRIPTION:	An insecticide for use as a ULV, Space, Area, Contact Spray, or Thermal Fog.		
CHEMICAL NAME:	Mixture		
MANUFACTURER:	McLaughlin Gormley King Company, 8810 Tenth Avenue North, Minneapolis MN. 55427		
TELEPHONE M-F, 8:00-4:30 CST, 14:00-22:30 GMT:	(800) 645-6466 or (763) 544-0341		
MSDS & Product Information, 8:00-4:30 CST, 14:00-22:30 GMT:	(800) 645-6466 or (763) 544-0341		
CHEMTREC U.S. and CANADA:	(800)-424-9300	CHEMTREC (ALL OTHER AREAS):	(703) 527-3887
FOR INFORMATION REGARDING MEDICAL EMERGENCIES OR PESTICIDE INCIDENTS CALL: 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. Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Contains petroleum distillates - Vomiting may cause aspiration pneumonia. Avoid contact with skin, eyes, and clothing. Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health, under the provisions of 30 CFR Part II.

**EYES:** Causes moderate eye irritation.

**SKIN:** Can cause skin irritation. Can cause a burning or prickling 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. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe lung injury.

**INHALATION:** Excessive inhalation may 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 <sup>3</sup> (OSHA, ACGIH)	Not Applicable	1.00
Piperonyl Butoxide	000051-03-6	Not established	1.00	2.00
MGK <sup>®</sup> 264 Insecticide Synergist	000113-48-4	Not established	Not Applicable	3.00
Pyriproxyfen (NYLAR <sup>®</sup> )	095737-68-1	Not established	Not Applicable	0.100
Esfenvalerate	066230-04-4	2 mg/m <sup>3</sup> (TWA, skin) (supplier recommended)	Not Applicable	0.200
Petroleum Distillates	064742-47-8	152 ppm (1200 mg/m <sup>3</sup> ) TWA (supplier recommended)	Not Applicable	80←→90

PEL = Permissible Exposure Limits.  
TLV = Threshold Limit Value.

TWA = Time Weighted Average (8 hr).  
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:** This product contains Pyrethrins, Pyrethroids, and Petroleum Distillates; Vomiting may pose an aspiration pneumonia hazard. For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E). Treatment is supportive and symptomatic. Diazepam has been recommended to reduce the CNS effects of Esfenvalerate.

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5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 184 °F/ 84.4 °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.

SENSITIVE STATIC DISCHARGE: Yes, use proper bonding and/ or grounding procedures.

HAZARDOUS COMBUSTION PRODUCTS:

Under fire conditions this product will support combustion and may decompose to give off toxic gasses such as carbon monoxide, carbon dioxide, nitrogen oxides, and HYDROGEN CYANIDE.

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

**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, open flame, 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.

**ELECTROSTATIC ACCUMULATION:** This product contains petroleum distillates, for which there is the potential for electrostatic accumulation. Proper grounding procedures should be used when transferring this material.

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:** Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health, under the provisions of 30 CFR Part II.

**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

<b>APPEARANCE:</b>	Clear, light-yellow color.	<b>MELTING POINT:</b>	Not available
<b>ODOR:</b>	Sweet vegetable odor/ Petroleum distillates.	<b>SOLUBILITY IN WATER:</b>	Immiscible in water.
<b>PHYSICAL STATE:</b>	Liquid	<b>SPECIFIC GRAVITY:</b>	0.799 (water = 1) @ 20°C (68°F)
<b>VAPOR PRESSURE:</b>	Not available	<b>COLOR, (GARDNER):</b>	2
<b>VAPOR DENSITY:</b>	Heavier than air.	<b>pH:</b>	Not available
<b>BOILING POINT:</b>	Not available	<b>VISCOSITY:</b>	9 CPS @ 23°C (73.4°F) Brookfield
<b>VOC:</b>	<3%	<b>REFRACTIVE INDEX:</b>	1.4408 @ 25°C (77°F)

10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable.

**INCOMPATIBILITY:** Strong acidic or alkaline materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** HCN, NO, NO<sub>2</sub>, CO, CO<sub>2</sub> 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.

Health	2
Flammability	2
Reactivity	1

The data contained herein are based on information currently available to McLaughlin Gormley King Company 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 McLaughlin Gormley King Company assumes legal responsibility.

Material Safety Data Sheet prepared by T. Azzivitto

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