

MATERIAL SAFETY DATA SHEET

Revision Date: 2/2/00

SECTION 1 - COMPANY AND PRODUCT INFORMATION SHEET

MANUFACTURED FOR: Paragon Professional Pest Control Products 3635 Knight Road, Suite 7 Memphis, Tennessee 38118	24 HOUR EMERGENCY PHONE (CHEMTREC) U.S. AND CANADA: (800) 424-9300 (ALL OTHER AREAS): (703) 527-3887	PRODUCT NAME: CONQUER® Residual Insecticide Concentrate 2662
TELEPHONE: M-F 8:00-4:30 CST, 14:00-22:30 GMT: (800) 645-6466 or (763) 544-0341	FOR INFORMATION REGARDING MEDICAL EMERGENCIES OR PESTICIDE INCIDENTS, CALL THE INTERNATIONAL POISON CENTER AT: 1-888-740-8712	PRODUCT DESCRIPTION: Pyrethroid Insecticide Concentrate
MSDS & PRODUCT INFORMATION: 8:00-4:30 CST, 14:00-22:30 GMT: (800) 238-9254 or (763) 544-0341		CHEMICAL NAME: Esfenvalerate SYNONYMS: Evercide 2662

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S)	CAS #	EINECS	EXPOSURE LIMITS	% BY WEIGHT
Esfenvalerate [(S) - Cyano (3-phenoxyphenyl) methyl 4-chloro-alpha- (1-methylethyl) benzeneacetate]	66230-04-4	None	2 mg/m ³ (TWA, Skin) (supplier recommended)	3.48
Paraffinic, Naphthenic Solvent (Supplier recommended PEL) PEL = Permissible Exposure Limits TLV = Threshold Limit Value	64742-47-8	265-149-8	100ppm (525mg/m ³) TWA TWA = Time Weighted Average (8 hr) STEL = Short Term Exposure Limit (15 Min.)	50.00-90.00

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION May be harmful if swallowed or inhaled. Causes eye irritation. Can cause allergic skin reaction. Avoid contact with skin, eyes or clothing. Combustible Liquid. Do not use near heat or open flame.

HEATH EFFECTS:

EYES:

Can Cause irritation with discomfort, tearing and blurred vision.

SKIN:

Overexposure by skin contact may initially include a transient (several minutes up to approximately 24 hours) persistent burning or prickling sensation which may be accompanied by visible irritation or rash.

INGESTION:

May be harmful if swallowed. Overexposure by ingestion may initially include nonspecific discomfort, such as nausea, vomiting, headache, or weakness; temporary nervous system effects such as muscular weakness, tremors and incoordination. Small amounts of this material may get into the lungs during ingestion or vomiting and may cause mild to severe lung injury.

INHALATION:

May be harmful if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. Excessive inhalation can cause nasal and respiratory irritation, nausea and nervous disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness. Individuals with preexisting diseases of the liver, kidneys, skin or peripheral nervous system may have increased susceptibility to the toxicity of excessive exposures.

SAFETY:

ALWAYS Wear safety glasses and appropriate personal protective equipment when handling this material.

SEE TOXICOLOGICAL INFORMATION (section 11)

SECTION 4 - FIRST-AID MEASURES

EYES:

Immediately flush with large amounts of water for at least 15 minutes. Call a physician.

SKIN:

Immediately flush affected areas with large amounts of water. Remove contaminated clothing and wash affected areas with soap and water. After drying, applying a vitamin E cream or oil containing a minimum of 15% vitamin E. If irritation persists, get medical attention. Do not reuse contaminated clothing prior to laundering. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing.

INHALATION:

Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and get medical attention immediately.

INGESTION:

If swallowed, call physician or poison control center immediately. Do not induce vomiting due to aspiration pneumonia hazard.

NOTE TO PHYSICIANS:

Treatment is supportive and symptomatic. Diazepam has been recommended to reduce the CNS effects of Esfenvalerate. Probable mucosal damage and danger of aspiration pneumonia may contraindicate the use of gastric lavage.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 145 °F **METHOD:** TCC
This product is classified as a combustible liquid.

FLAMMABLE LIMITS:

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

AUTOIGNITION TEMPERATURE:

not established.

HAZARDOUS COMBUSTION PRODUCTS:

Hydrogen cyanide may be produced by thermal degradation.

EXTINGUISHING MEDIA:

Foam, carbon dioxide, or dry chemical.

FIRE FIGHTING INSTRUCTIONS:

Treat as a oil fire. Keep personnel 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.

SECTION 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.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Do not breath vapor or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use. Discard shoes if contaminated. Do not store or consume food, drink or tobacco in areas where they may have become contaminated with this product. Wear chemically impervious gloves such as neoprene or nitrile. Wear OSHA-approved safety glasses, goggles or face shield. Wearing a respirator is not required when handling this material but recommended in absence of proper mechanical ventilation. 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, ignition sources and strong oxidizers. Emptied containers may retain product residues.

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 distillate for which there is the potential for electrostatic accumulation. Proper grounding procedures should be used when transferring this material.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**ENGINEERING CONTROLS:**

Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

RESPIRATORY PROTECTION:

A respirator with an organic cartridge is required when product is dispensed in a mist or vapor form.

SKIN PROTECTION:

Wear neoprene or nitrile gloves and protective clothing. Do not allow contact with skin.

EYE PROTECTION:

Wear an OSHA-Approved safety glasses, goggles or face shield.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pale yellow-colored liquid.
ODOR: Refined petroleum odor
PHYSICAL STATE: Liquid.
VAPOR PRESSURE: Not established.
VAPOR DENSITY: Not established.
BOILING POINT: Not established.

MELTING POINT: Not applicable.
SOLUBILITY: Emulsifiable in water. Soluble with most organic solvents.
SPECIFIC GRAVITY @ 20°C: 0.853
COLOR, (GARDENER): 2
PH: 4.8 @ 3% in H₂O
REFRACTIVE INDEX @ 25°C: 1.4522

SECTION 10 - STABILITY AND REACTIVITY

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

HAZARDOUS DECOMPOSITION PRODUCTS:
 Hydrogen cyanide may be formed by thermal decomposition or by contact with alkaline substance such as soda ash & lye.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 - TOXICOLOGY INFORMATION

ACUTE STUDIES:
EYE: Primary eye irritation (rabbit): Conjunctival irritation clearing in 48 hours.
SKIN: Primary skin irritation index (rabbit): Irritation index = 2.13
 Dermal Sensitization (guinea pig): Not a sensitizer.
 Acute Dermal LD₅₀ (rabbit): > 2000 mg/kg
INGESTION: Acute Oral LD₅₀ (rat): = 1470 mg/kg
INHALATION: Acute Inhalation LC₅₀ (rat) (4 hour): = 0.99 mg/l
CHRONIC (NOEL): Not available

ONCOGENICITY (NOEL): Not available
SUBCHRONIC (NOEL): Not available
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.
TERATOGENICITY (NOEL): Not available
REPRODUCTION (NOEL): Not available
MUTAGENICITY: Not available

SECTION 12 - ECOLOGICAL INFORMATION**PERSISTENCE IN THE ENVIRONMENT**

BIODEGRADATION: Not available
CHEMICAL DEGRADATION: Not available

TOXIC EFFECTS ON ORGANISMS: This pesticide is highly toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer system without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

TOXICITY TO USEFUL INSECTS: Unknown

SECTION 13 - DISPOSAL CONSIDERATIONS**RCRA/CERCLA HAZARDOUS WASTE:**

INGREDIENT
None

RCRA ID #: **CERCLA RQ-VALUE**

DISPOSAL METHOD: Product should be disposed of according to local, state and federal regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

SECTION 14 - TRANSPORTATION INFORMATION**U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:**

Regulated as a hazardous material according to the Department of Transportation in bulk quantities (greater than 119 gallons) only:

PROPER SHIPPING NAME: Combustible Liquid, N.O.S. (paraffinic, Naphthenic Solvent)

HAZARD CLASS: Combustible Liquid

IDENTIFICATION NUMBER (UN OR NA): NA 1993

PACKING GROUP: III

INTERNATIONAL TRANSPORTATION REGULATIONS:

IACO/IATA DESCRIPTION: Not Considered hazardous by IATA Regulations for transportation via air.

IMO DESCRIPTION (IMDG CODE): Not considered hazardous by IATA Regulations for transportation via vessel.

SECTION 15 - REGULATORY INFORMATION**EUROPEAN COMMUNITY:**

RISK PHRASES: R23, R38, R37, R22
EINECS: See Section 2.

U.S. FEDERAL REGULATIONS:**SARA TITLE III**

SECTION 302: Not listed
SECTION 313: This product contains the following toxic chemicals of the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#
66230-04-4

CHEMICAL NAME:
Esfenvalerate [(S)-Cyano (3-phenoxyphenyl) methyl 4-chloro-alpha-(1-methylethyl) benzeneacetate]

% BY WEIGHT:
3.48

SECTION 16 - OTHER INFORMATION**HMIS RATINGS:**

We assign HMIS rating 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 7 and 8 of this MSDS.

HMIS RATINGS: Health 2
 Flammability 2
 Reactivity 1

The data contained herein is based on information currently available to MGK company, and believed to be factual and the opinions expressed to be those of qualified; however, this data is not to be taken as a warranty or representation for which MGK Company assumes legal responsibility.

Material Safety Data Sheet prepared by T.A. Lennan