

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

COMPANY CONTACT: Regulatory Dept.
TELEPHONE NUMBER: (800)438-5837

EMERGENCY TELEPHONE NUMBER: (800)471-0660

PRODUCT NAME: Kicker
PRODUCT CODE: E72070PT
CHEMICAL FAMILY: Mixture
CHEMICAL FORMULA: Mixture
EPA REGISTRY NUMBER: 4816-707
MSDS IDENTIFICATION CODE/NUMBER: E72070PT

Kicker is a registered trademark of AgrEvo Environmental Health, Inc.

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Pyrethrins
CAS NUMBER: 8003-34-7
CONCENTRATION PERCENT BY WEIGHT: = 6
EXPOSURE LIMITS: None established

INGREDIENT: Piperonyl butoxide
CAS NUMBER: 51-03-6
CONCENTRATION PERCENT BY WEIGHT: = 60
EXPOSURE LIMITS: None established

INGREDIENT: Petroleum distillate
CAS NUMBER: 64742-47-8
CONCENTRATION PERCENT BY WEIGHT: > 20
EXPOSURE LIMITS: None established

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Medium to dark amber, viscous liquid with sweet odor that is:

Harmful if swallowed or inhaled.
Toxic to fish, shrimp, crab and other aquatic organisms.

POTENTIAL HEALTH EFFECTS**PRIMARY ROUTE(S) OF ENTRY**

Inhalation, ingestion, eye and skin contact.

EYES

Moderately irritating.

SKIN

Causes moderate irritation.

INGESTION

Harmful if swallowed.

INHALATION

Harmful if inhaled.

CHRONIC (CANCER INFORMATION)

See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide.

SIGNS AND SYMPTOMS

May cause gastrointestinal effects such as nausea, vomiting and diarrhea. Ingestion of large quantities can result in nervous system effects such as dizziness, loss of coordination, tremors and loss of consciousness. Symptoms usually regress with no long lasting effects.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

None known.

4. FIRST AID MEASURES**EYES**

Flush with water for at least 15 minutes. Get medical attention if irritation persists.

SKIN

Remove all contaminated clothing. Wash skin with plenty of soap and water. Get medical attention if irritation persists.

INGESTION

Contact a physician or Poison Control Center. This product contains petroleum solvent. Aspiration may be a hazard.

INHALATION

Remove to fresh air. If breathing is difficult or if discomfort persists, obtain medical attention.

NOTE TO PHYSICIAN

This product contains a pyrethroid and a petroleum solvent. If ingested and vomiting has not occurred, emesis should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

Do not administer milk, cream or other substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances.

5. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES**

FLASH POINT: 144 F 62 C TCC

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam, or Water.

FIRE FIGHTING INSTRUCTIONS

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Soak up with absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

7. HANDLING AND STORAGE**HANDLING PRECAUTIONS**

Avoid breathing spray mist.
Do not get in eyes.
Avoid contact with clothing.
When using in an enclosed area, do not remain in treated area.
Ventilate the area after treatment is completed.
All food processing surfaces should be removed or covered during treatment, or thoroughly cleaned before using.
When using this product in these areas, apply only when facility is not in operation.

STORAGE PRECAUTIONS

Store upright at room temperature. Avoid exposure to extreme temperatures.

WORK/HYGIENIC PRACTICES

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**EYE/FACE PROTECTION**

Chemical splash goggles or face shield.

SKIN PROTECTION

Chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton.

OTHER/GENERAL PROTECTION

Long-sleeved shirt, long pants, shoes plus socks.

9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE**

Medium to dark amber, slightly viscous liquid.

ODOR

Slightly sweet

BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid

SPECIFIC GRAVITY: 0.977

PACKING DENSITY: 8.14 lb/gal

SOLUBILITY (H₂O): Emulsifiable

PERCENT VOLATILES: 25

10. STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBLE MATERIALS

Strong oxidizers and acids.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION**ACUTE STUDIES**

Acute toxicity data is taken from Pyrenone Crop Spray; EPA Reg. No. 4816-490, which contains 6% Pyrethrins and 60% Piperonyl Butoxide.

EYE EFFECTS

Irritating/Non-corrosive

SKIN EFFECTS

Irritation: Moderately irritating

Absorption: LD50 > 2,000 mg/kg

Sensitization: Negative

ACUTE ORAL EFFECTS

LD50: 4,500 mg/kg (male rat); 4,900 mg/kg (Female rats)

ACUTE INHALATION EFFECTS

4-Hour LC50 > 5 mg/L

1-Hour equivalent LC50 > 20 mg/L (for DOT purposes)

CHRONIC (CANCER INFORMATION)

In a recent study, marginally higher incidences of benign thyroid, parathyroid, ovary, and liver tumors were observed in rats and in lungs of mice following lifetime high dose exposures to pyrethrum. Marginally higher incidences of benign liver tumors in mice were observed in mice following lifetime high dose exposures to piperonyl butoxide. The significance of these observations is questionable and under review. The doses at which tumors were observed for both pyrethrum and piperonyl butoxide greatly exceeded potential human exposure from labeled uses.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

TERATOGENICITY (BIRTH DEFECTS)

There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits for either pyrethrum or piperonyl butoxide. They are not considered to be teratogenic.

MUTAGENICITY (GENETIC EFFECTS)

Pyrethrum was not found to be genotoxic and did not damage DNA in any study conducted (Ames mutagenicity assay, chromosome aberration in Chinese hamster ovaries (CHO) cells, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. PBO was not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberration in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

12. ECOLOGICAL INFORMATION**OTHER ENVIRONMENTAL INFORMATION**

This product is toxic to fish, shrimp, crab and other aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

13. DISPOSAL CONSIDERATIONS

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.
Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Environmentally Hazardous Substance, n.o.s. (Pyrethrins)

HAZARD CLASS: 9, PG III
DOT IDENTIFICATION NUMBER: UN3082
DOT SHIPPING LABEL: Class 9

ADDITIONAL SHIPPING PAPER DESCRIPTION
RQ (Pyrethrins)

NOTE: This product is not regulated by DOT in quantities less than 2 gallons.

PREPARED BY: Regulatory Department
PHONE: (800)438-5837
SUPERCEDES MSDS DATED: 01/12/95

DATE AND TIME OF PRINTING: 09/21/98 10:27:19

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

This information is provided in good faith but without expressed or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label directions.

15. REGULATORY INFORMATION**SARA TITLE III NOTIFICATIONS AND INFORMATION****SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

CAS NUMBER: 51-03-6
INGREDIENT NAME: Piperonyl butoxide
PERCENT BY WEIGHT: 60

This information must be included on all MSDSs that are copied and distributed for this material.

REGULATED INGREDIENTS

INGREDIENT: Pyrethrins
CAS NUMBER: 8003-34-7
PERCENT BY WEIGHT: = 6

Regulations:

Illinois Toxic Substance
New Jersey Workplace Hazardous Substance
Pennsylvania Environmental Hazardous Substance
Pennsylvania Workplace Hazardous Substance

INGREDIENT: Piperonyl butoxide
CAS NUMBER: 51-03-6
PERCENT BY WEIGHT: = 60
Regulations: SARA Section 313 Toxic Chemical

16. OTHER INFORMATION**HMIS HAZARD RATING**

HEALTH: 1 Slight
FIRE: 2 Moderate
REACTIVITY: 0 Negligible
PROTECTION: B

NFPA HAZARD RATING

HEALTH: 1 Slight
FIRE: 2 Moderate
REACTIVITY: 0 Negligible
SPECIAL:

MSDS IDENTIFICATION CODE/NUMBER: E72070PT