7  Kicker
Material Safety Data Sheet

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Routes of Exposure
Inhalation and ingestion. Eye and skin contact.

Immediate Effects
Eye
Moderately irritating
Skin
Causes moderate skin irritation.
Ingestion
Harmful if swallowed.
Inhalation
Harmful if inhaled.

Chronic or Delayed
Long-Term
See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide.

Medical Conditions
Aggravated by Exposure
None known

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.

SECTION 4. FIRST AID MEASURES

Eye
Flush eyes with plenty of water for at least 15 minutes. Get medical attention if
irritation develops or persists.

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

Ingestion
Call a physician or Poison Control Center. Do not induce vomiting unless told to
do so by a poison control center or doctor. Contains petroleum distillates.
Vomiting may cause aspiration pneumonia.

Inhalation
Remove victim to fresh air. Apply artificial respiration if indicated.

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.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point
62 °C / 144 °F
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Method: Tagliabue Closed Cup

Suitable Extinguishing Media

- carbon dioxide (CO2), dry chemical, foam, water

Fire Fighting Instructions

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal

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

SECTION 7. HANDLING AND STORAGE

Handling Procedures

- Avoid breathing spray mist. Do not get in eyes. Avoid getting material on clothing.

- 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.

Storing Procedures

- For Containers Larger than one Gallon: Store upright at room temperature. Avoid exposure to extreme temperatures. Do not use or store near heat or open flame.

- Container One Gallon and Smaller: Store in original container. Keep in a dry, cool place. Keep out of reach of children and domestic animals.

Work/Hygienic Procedures

- 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.

- When using in an enclosed area, do not remain in treated area. Ventilate the area after treatment is completed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection

- splash goggles or face-shield

Body Protection

- Chemical-resistant gloves such as barrier laminate, butyl rubber >/= 14 mils, nitrile rubber >/= 14 mils, neoprene rubber >/= 14 mils, or polyvinyl chloride (PVC) >/= 14 mils, or Viton >/= 14 mils Long-sleeved shirt and long pants shoes plus socks

Respiratory Protection

- Wear mask or respirator of a type recommended by the U.S. Bureau of Mines to
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Other Information

PERCENT VOLATILES: 25

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable
Conditions to Avoid extreme temperatures
Incompatibility strong acids oxidizers
Hazardous Polymerization Will not occur
(Conditions to avoid)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity Male Rat: LD50: 4,500 mg/kg
Female Rat: LD50: 4,900 mg/kg
Acute Dermal Toxicity LD50: > 2,000 mg/kg
Acute Inhalation Toxicity LC50: > 5 mg/l 4 h
LC50: > 20 mg/l 1 h for DOT purposes
Skin Irritation Moderately irritating
Eye Irritation Irritating Non-corrosive.
Sensitization Negative

The acute toxicity data is taken from Pyrenone Crop Spray (432-1033); which contains 6% Pyrethrins and 60% Piperonyl Butoxide.

Chronic Toxicity 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 doses 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.
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Assessment Carcinogenicity

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<td>IARC</td>
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<td>51-03-6</td>
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<td>OSHA</td>
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Teratogenicity

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

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.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

This pesticide is extremely toxic to fish and other aquatic organisms, including crab and shrimp. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the 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 treated areas.
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SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance
Do not contaminate water, food, or feed by storage or disposal.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of at 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.

RCRA Classification
Not Regulated under this Statute

SECTION 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 DESCRIPTIONRQ (Pyrethrins)

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

SECTION 15. REGULATORY INFORMATION

US Federal
EPA Registration No. 432-1145
TSCA list
Piperonyl butoxide 51-03-6
Isoparaffinic Petroleum Solvent 64742-47-8
TSCA 12b export notification None
SARA Title III - section 302 - notification and information None
SARA Title III - section 313 - toxic chemical release reporting Piperonyl butoxide 51-03-6 1.0%

US States Regulatory
CA Prop65
This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive
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harm.

US State right-to-know ingredients
Pyrethrin 8003-34-7
Piperonyl butoxide 51-03-6
CA, CT, IL, MN, NJ, PA, RI
NJ

Canadian Regulations
Canadian Registrat. No.

Canadian Domestic Substance List
Pyrethrin 8003-34-7
Piperonyl butoxide 51-03-6
Isoparaffinic Petroleum Solvent 64742-47-8

Environmental
CERCLA
Pyrethrin 8003-34-7

Clean Water Section 307 Priority Pollutants
None

Safe Drinking Water Act Maximum Contaminant Levels
None

International Regulations
EU Classification
None

European Inventory of Existing Commercial Substances (EINECS)
Pyrethrin 8003-34-7
Piperonyl butoxide 51-03-6
Isoparaffinic Petroleum Solvent 64742-47-8

SECTION 16. OTHER INFORMATION

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<th>Reactivity</th>
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REVISED SECTIONS:
MSDS REVISION INDICATOR: Company name change.

Print Date: 12/09/2002
Supersedes MSDS, which is older than: 12/04/2002

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