



KICKER®

MSDS Version 2.1

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name** KICKER®  
**Chemical Name**  
**Synonym**  
**MSDS Number** 91  
**Chemical Family** Mixture  
**Chemical Formulation** Mixture  
**EPA Registration No.** 432-1145  
**Canadian Registrat. No.**

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-800-331-2867

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Pyrethrin	8003-34-7	6.0000	
Piperonyl butoxide	51-03-6	60.0000	
Isoparaffinic Petroleum Solvent	64742-47-8	> 20.0000	

**SECTION 3. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution. Hazard to humans and domestic animals. Harmful if swallowed. Do not get in eyes. Do not breathe spray mist.

**Physical State** liquid slightly viscous

**Odor** Slightly sweet

**Appearance** Medium to dark amber

# Material Safety Data Sheet

MSDS Number: 00000000091  
MSDS Version 2.1

## KICKER®

<b>Routes of Exposure</b>	Inhalation and ingestion. Eye and skin contact.
<b>Immediate Effects</b>	
<b>Eye</b>	Moderately irritating
<b>Skin</b>	Causes moderate skin irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Chronic or Delayed Long-Term</b>	See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide.
<b>Medical Conditions Aggravated by Exposure</b>	None known
<b>Signs and Symptoms</b>	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

<b>Eye</b>	Flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
<b>Skin</b>	Remove contaminated clothing. Wash with plenty of soap and water. Get medical attention immediately if irritation persists.
<b>Ingestion</b>	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.
<b>Inhalation</b>	Remove victim to fresh air. Apply artificial respiration if indicated.
<b>Note to Physician</b>	<p>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.</p> <p>Do not administer milk, cream or other substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances.</p>

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	62 °C / 144 °F
--------------------	----------------

# Material Safety Data Sheet

KICKER®

MSDS Number: 00000000091  
MSDS Version 2.1

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  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  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

# Material Safety Data Sheet

KICKER®

MSDS Number: 00000000091

MSDS Version 2.1

give adequate protection against this material.

## Exposure Limits

Pyrethrin	8003-34-7	ACGIH	TWA	5 mg/m3
		NIOSH	REL	5 mg/m3
		OSHA Z1	PEL	5 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		US CA OEL	TWA PEL	5 mg/m3
Isoparaffinic Petroleum Solvent	64742-47-8	ACGIH NIC	TWA	200 mg/m3

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Medium to dark amber
<b>Physical State</b>	liquid slightly viscous
<b>Odor</b>	Slightly sweet
<b>Specific Gravity</b>	0.977
<b>Bulk Density</b>	8.14 lb/gal
<b>Solubility (in water)</b>	emulsifiable

# Material Safety Data Sheet

KICKER®

MSDS Number: 000000000091  
MSDS Version 2.1

Other Information                    PERCENT VOLATILES: 25

## SECTION 10. STABILITY AND REACTIVITY

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

## SECTION 11. TOXICOLOGICAL INFORMATION

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

# Material Safety Data Sheet

KICKER®

MSDS Number: 00000000091

MSDS Version 2.1

## Assessment Carcinogenicity

### ACGIH

Pyrethrin

8003-34-7

Group A4

### NTP

None

### IARC

Piperonyl butoxide

51-03-6

3

### OSHA

None

## 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.

# Material Safety Data Sheet

KICKER®

MSDS Number: 00000000091  
MSDS Version 2.1

## 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

# Material Safety Data Sheet

MSDS Number: 00000000091  
MSDS Version 2.1

**KICKER®**

harm.

## US State right-to-know ingredients

Pyrethrin	8003-34-7	CA, CT, IL, MN, NJ, PA, RI
Piperonyl butoxide	51-03-6	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	1 lbs
-----------	-----------	-------

### 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

	Health	Flammability	Reactivity	Others
HMIS	1	2	0	B
NFPA	1	2	0	

### REVISED SECTIONS:

MSDS REVISION INDICATOR: Company name change.

Print Date: 12/09/2002

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

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer AG. Bayer Environmental Science