



# Material Safety Data Sheet

**KICKER<sup>®</sup>**

MSDS Number: 91  
MSDS Version 1.1

## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

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

Aventis  
95 Chestnut Ridge Road  
Montvale, NJ 07645  
USA

For Product Use Information: (800)331-2867 Monday through Friday  
8:00AM-4:30PM  
For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day  
For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

## 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** 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.

**Physical State** liquid

**Odor** Slightly sweet

**Appearance** Medium to dark amber, slightly viscous liquid.

**Routes of Exposure** Inhalation, ingestion, eye and skin contact.

**Immediate Effects**

**Eye** Moderately irritating.

**Skin** Causes moderate irritation.

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<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 with water for at least 15 minutes. Get medical attention if irritation persists.
<b>Skin</b>	Remove all contaminated clothing. Wash skin with plenty of soap and water. Get medical attention if irritation persists.
<b>Ingestion</b>	Contact a physician or Poison Control Center. This product contains petroleum solvent. Aspiration may be a hazard.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult or if discomfort persists, obtain medical attention.
<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 TCC
<b>Suitable Extinguishing Media</b>	Carbon dioxide, dry chemical, foam or water.
<b>Fire Fighting Instructions</b>	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

<b>General and Disposal</b>	Soak up with absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.
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## SECTION 7. HANDLING AND STORAGE

<b>Handling Procedures</b>	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.
<b>Storing Procedures</b>	Store upright at room temperature. Avoid exposure to extreme temperatures.
<b>Work/Hygienic Procedures</b>	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.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Eye/Face Protection</b>	Chemical splash goggles or face shield.			
<b>Body Protection</b>	Chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton. Long-sleeved shirt, long pants, shoes plus socks.			
<b>Exposure Limits</b>				
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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Medium to dark amber, slightly viscous liquid.
<b>Physical State</b>	liquid
<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

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Other Information                      PERCENT VOLATILES: 25

## SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability**                      Stable

**Incompatibility**                        Strong oxidizers and acids.

**Hazardous Polymerization (Conditions to avoid)**                      Will not occur

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity**                      (Rat) LD50: 4,500 mg/kg (male); 4,900 mg/kg (female)

**Acute Dermal Toxicity**                      LD50 > 2,000 mg/kg

**Acute Inhalation Toxicity**                      4-Hour LC50 > 5 mg/L  
1-Hour equivalent LC50 > 20 mg/L (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.

### Assessment Carcinogenicity

<b>ACGIH</b>		
Pyrethrin	8003-34-7	Group A4
<b>NTP</b>		
None		
<b>IARC</b>		
Piperonyl butoxide	51-03-6	
Isoparaffinic Petroleum Solvent	64742-47-8	
<b>OSHA</b>		
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

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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 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.

## SECTION 13. DISPOSAL CONSIDERATIONS

### General Disposal Guidance

Pesticide Disposal: Pesticide, spray mixture or rinse water that can not 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.

## 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

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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%
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## US States Regulatory

### CA Prop65

This product contains a chemical known to the state of California to cause cancer.

None

This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

None

### US State right-to-know ingredients

Pyrethrin	8003-34-7	CA, CT, IL, 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
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### 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)

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## SECTION 16. OTHER INFORMATION

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

### REVISED SECTIONS:

MSDS REVISION INDICATOR: New Format

PREPARED BY: Regulatory Department

PHONE: 800-438-5837

SUPERCEDES MSDS DATED: 05/18/2000

Print Date: 10/05/2001

Supersedes MSDS, which is older than: 10/04/2001

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