Bayer Environmental Science



MSDS Number: 000000000091

KICKER®

MSDS Version 2.1

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name

KICKER®

Chemical Name

Synonym

91

MSDS Number Chemical Family

Mixture

Chemical Formulation

Mixture

EPA Registration No.

432-1145

Canadian Registrat. No.

Bayer Environmental Science 95 Chestnut Ridge Road Montvale, NJ 07645 USA

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

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No.		Concentration % by Weight		
		ı	Minimum	Maximum	
Pvrethrin	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 hu

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

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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

Eye

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

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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give adequate protection against this material.

Exposure Limits

Pyrethrin	8003-34-7	ACGIH	TWA	5 mg/m3
· y		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	64742-47-8	ACGIH NIC	TWA	200 mg/m3

Solvent

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Medium to dark amber

Physical State

liquid slightly viscous

Odor

Slightly sweet

Specific Gravity

0.977

Bulk Density

8.14 lb/gal

Solubility (in water)

emulsifiable

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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

Will not occur

Polymerization (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-corrossive.

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

ACGIH

Pyrethrin 8003-34-7 Group A4

NTP None

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 incultured 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 systhesis (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

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

1.0%

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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

					368800
	Health	Flammability	Reactivity	Others	
HMIS	1	2	0	В	
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

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