

MSDS Number: 00000000062

DRIONE[®] INSECTICIDE

MSDS Version 3.

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product NameDRIONE® INSECTICIDEChemical NameMixture; a.i.'s, pyrethrins, piperonyl butoxideSynonym62Chemical Family62Chemical Formulation432-992EPA Registration No.432-992

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

Product Use Description Drione Insecticide is a dust that provides quick control of a variety of insects and kills up to 6 months if left undisturbed. For industrial/commercial use only.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No.	Concentration	which we we we way to be a weight of the second sec
		Minimum	Maximum
Pyrethrin	8003-34-7	1.0000	
Piperonyl butoxide	51-03-6	10.0000	
Amorphous silicon dioxide hydrate (Amorphous silica) Other ingredients, including:	112926-00-8	40.0000	
Isoparaffinic Petroleum Solvent	64742-47-8	49.0000	

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information. <u>Emergency Overview</u> Causes moderate eye irritation. This product is toxic to fish.

Physical State	solid
Odor	Very mild, tea-like odor.
Appearance	white to yellow
Immediate Effects Eye	Causes moderate eye irritation.

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Skin	Harmful if absorbed through skin.
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		
Еуе	Flush eyes with plenty of water. Call a physician if irritation persists.	
Skin	Wash with plenty of soap and water. Seek medical attention.	
Ingestion	Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately.	
Inhalation	Remove victim to fresh air. Seek medical attention if breathing difficulties occur.	
Note to Physician	May pose an aspiration pneumonia hazard.	

SECTION 5. FIRE FIGHTING MEASURES		
Flash Point	88 °C / 190 °F	
	Test Type: Tag 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. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors. FLAMMABILITY CLASSIFICATION/RATING: NFPA/OSHA Class: IIIA NFPA Rating (Fire): 2	
Dust Explosion Class	Not available	

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal Use proper protective equipment to minimize personal exposure (see Section 8).

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Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with Federal or local disposal regulations. See Section 15 for any applicable Reportable Quantity (RQ) and other federal regulatory information.

Land Spill or Leaks Small Spill: Sweep up carefully while avoiding the formation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

Large Spill: Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs. Contact Aventis for further assistance if necessary.

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Avoid contact with skin, eyes and clothing. Containers larger than one pound may not be used in food handling establishments.
Storing Procedures	Do not contaminate water, food, or feed by storage or handling. Store upright at room temperature. Avoid moisture. Containers larger than one pound may not be stored in food handling establishments. Containers one pound and smaller should be stored in original sealed container in a cool, dry place inaccessible to children and pets.
Work/Hygienic Procedures	Wash thoroughly with soap and water after handling.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Control airborne concentrations below the exposure guidelines. Local exhaust ventilation may be necessary.			
Eye/Face Protection	safety glasses splash goggles or face-shield			
Body Protection	Chemical-resistant gloves (Neoprene, Nitrile, PVC) other protective clothing to avoid skin contact			
Respiratory Protection	Ensure adequate ventilation. If not adequate, use a chemical cartridge-type respirator approved by the National Institute of Occupational Health and Safety.			
General Protection	Eye wash facility and safety shower should be available.			
Exposure Limits				
Pyrethrin	8003-34-7	ACGIH	TWA	5 mg/m3

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Amorphous silicon dioxide hydrate (Amorphous silica)	112926-00-8	NIOSH OSHA Z1 OSHA Z1A US CA OEL OSHA Z1A	REL PEL TWA TWA PEL TWA	-	5 mg/m3 5 mg/m3 5 mg/m3 5 mg/m3 6 mg/m3
(- 1		US CA OEL	TWA PEL	-	5 mg/m3
		Form of E	xposure	Respirable fraction.	-
		US CA OEL		-	5 mg/m3
		Form of E	•	Respirable fraction.	
		US CA OEL	TWA PEL	-	10 mg/m3
		Form of E	•	Total dust.	_ / _
		US CA OEL	TWA PEL	_	5 mg/m3
		Form of E		Respirable fraction.	
		US CA OEL		-	10 mg/m3
		Form of E	•	Total dust.	
		US CA OEL	TWA PEL		10 mg/m3
		Form of E		Total dust.	
		ACGIH	TWA		10 mg/m3
Isoparaffinic Petroleum Solvent	64742-47-8	ACGIH NIC	TWA		200 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to yellow
Physical State	solid
Odor	Very mild, tea-like odor.
рН	6 - 8 Normally not mixed with water neutral
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Density	Not available
Bulk Density	(SETTLED): 12.2 lb/ft3 (FLUFFED): 9.2 lb/ft3

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Boiling Point	Not available
Melting/Freezing Point	Not available
Solubility (in water)	insoluble
Solubility (in Solvent/Oil)	Not available
Minimum Ignition Energy (mj)	Not available
Minimum Explosion Conc. (MEC)	Not available
Other Information	EVAPORATION RATE (BUTYL ACETATE = 1): Not available LIMITED OXYGEN CONCENTRATION (LOC): Not available PARTICLE SIZE: 3 microns

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable

Hazardous	Will not occur
Polymerization	
(Conditions to avoid)	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	The following data was developed with: Drione Insecticide Rat: LD50: > 5,000 mg/kg Practically non-toxic
Acute Dermal Toxicity	The following data was developed with: Drione Insecticide Rabbit: LD50: > 2,000 mg/kg Slightly toxic.
Acute Inhalation Toxicity	The following data was developed with: Drione Insecticide Rat: LC50: 2.99 mg/l 4 h Practically non-toxic
Skin Irritation	The following data was developed with: Drione Insecticide Non-irritating. Primary Irr. Index = 0.1
Eye Irritation	The following data was developed with: Drione Insecticide Rabbit: Slightly irritating.
Sensitization	The following data was developed with: Drione Insecticide Guinea pig: Non-sensitizing

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NOTE: The severity classifications listed above are those of Aventis and, particularly for eye irritation, may not always coincide with EPA-Mandated Precautionary Statements.

THE FOLLOWING DATA WERE DEVELOPED WITH: pyrethrin and piperonyl butoxide, the active ingredients

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 Carcinogenic ACGIH	city	9002 24 7		
Pyrethrin NTP None		8003-34-7	Group A4	
IARC Piperonyl butoxide OSHA None		51-03-6	3	
Reproductive & Developmental Toxicity	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 systhesis (UDS) assay in cultured human liver cells.			

SECTION 12. ECOLOGICAL INFORMATION

EnvironmentalThis product is toxic to fish. Do not apply directly to water. Do not contaminatePrecautionswater when disposing of equipment washwater or rinsate.

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SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	Do not contaminate water, food, or feed by 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	Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.		
	Container One Pound and Smaller: Do not reuse containers. Wrap container in several layers of newspaper and discard in trash.		
RCRA Classification	Not Regulated under this Statute		

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT Regulated

ADDITIONAL SHIPPING PAPER DESCRIPTION

Pyrethrins have a Reportable Quantity of 1 pound. When sold in 40 pound boxes, Drione has a pyrethrin content of 0.4 pound which if spilled does not require reporting, therefore it is not DOT regulated at less than 100 pounds.

If Drione is sold in quantities of 100 pounds or more, then the correct DOT information is: Environmentally hazardous substance, Solid, n.o.s. (Pyrethrins) UN 3077, PG III, Class 9

Hazard Label: Class 9 RQ (Pyrethrins)

NOTE: For transport purposes (49 CFR Part 173.132), the calculated 1-Hour LC50 (Rat) is: > 11.96 mg/l.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations EPA Registration No. TSCA list	432-992
Piperonyl butoxide	51-03-6
Isoparaffinic Petroleum Solvent	64742-47-8
TSCA 12b export notification	
None SARA Title III - section 302 - notification	and information

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None

SARA Title III - section 313 - toxic chemical release reporting Piperonyl butoxide 51-03-6

US States Regulatory Reporting

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 harm.

US State right-to-know ingredients Pyrethrin Piperonyl butoxide Amorphous silicon dioxide hydrate (Amorphous silica)	8003-34-7 51-03-6 112926-00-8	CA, CT, IL, NJ, PA, RI NJ PA	
Canadian Regulations			
Canadian Registrat. No.			
Canadian Domestic Substance List			
Pyrethrin	8003-34-7		
Piperonyl butoxide	51-03-6		
Amorphous silicon dioxide hydrate (Amorphous silica)	112926-00-8		
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 Contaminan	t Levels		
None			
International Regulations EU Classification			
None			
European Inventory of Existing Commercial Su	• • •)	
Pyrethrin	8003-34-7		
Piperonyl butoxide	51-03-6		
Isoparaffinic Petroleum Solvent	64742-47-8		

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OF OTION 40	ATTICD INCODMATION	
SECTION 10.	OTHER INFORMATION	

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

REVISED SECTIONS:

MSDS REVISION INDICATOR: Updated Regulatory Information, Additional Exposure Limits in Section 8 and Changes in Section 11, Carcinogenicity Assessment.

Print Date: 07/18/2002

Supersedes MSDS, which is older than: 07/18/2002

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