



Safety Data Sheet

DRIONE® INSECTICIDE DUST

SDS Number: 102000027086

SDS Version 1.2

Revision Date: 05/13/2015

Print Date: 05/13/2015

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	DRIONE® INSECTICIDE DUST
SDS Number	102000027086
Product code (UVP)	80919476
PCP Registration No.	15255
Product Use	Insecticide

Bayer CropScience Inc
 #200, 160 Quarry Park Blvd, SE
 Calgary, Alberta T2C 3G3
 Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
 For Product Information call: 1-888-283-6847

SECTION 2. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust.

Physical State	powder
Odor	very faint
Appearance	white to light yellow
Exposure routes	Eye contact, Skin Absorption, Ingestion, Inhalation
Immediate Effects	
Eye	Moderate eye irritation.
Skin	Harmful if absorbed through skin. May cause slight irritation.
Ingestion	Harmful if swallowed.
Inhalation	Inhalation may cause irritation of nasal passages.

Chronic or Delayed Long-Term This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects. This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic).



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Potential Environmental Effect Toxic to fish and aquatic organisms. Toxic to invertebrates.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Pyrethrins including cinerins	8003-34-7	1.00
Piperonyl butoxide	51-03-6	9.70
Distillates (petroleum), hydrotreated light	64742-47-8	45.30

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to physician	
Signs and Symptoms	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
Hazards	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.



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SECTION 5. FIRE FIGHTING MEASURES

Flash point	not applicable
Autoignition temperature	no data available
Lower Flammability Limit	not applicable
Upper Flammability Limit	not applicable
Explosiveness	no data available
Fire and Explosion Hazards	Dangerous gases are evolved in the event of a fire.
Suitable extinguishing media	Carbon dioxide (CO ₂), Dry chemical, Foam, Water
Unsuitable extinguishing media	None known.
Fire Fighting Instructions	<p>Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. In the event of fire and/or explosion do not breathe fumes.</p>

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for cleaning up	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional advice	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.



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SECTION 7. HANDLING AND STORAGE

Handling procedures	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage. Take measures to prevent the build up of electrostatic charge.
Storing Procedures	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.
Work/Hygienic Procedures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.
Eye/Face Protection	Safety glasses with side-shields
Hand protection	Chemical resistant nitrile rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Pyrethrins including cinerins	8003-34-7	CAD AB OEL	TWA	5 mg/m3
		CAD BC OEL	TWA	5 mg/m3
		CAD MB OEL	TWA	5 mg/m3



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		CAD ON OEL	TWAEV	5 mg/m3
		CAD SK OEL	15 MIN ACL	10 mg/m3
		CAD SK OEL	8 HR ACL	5 mg/m3
		OEL (QUE)	TWA	5 mg/m3
		OES BCS*	TWA	5 mg/m3
Piperonyl butoxide	51-03-6	OES BCS*	TWA	500 ppm
Distillates (petroleum), hydrotreated light	64742-47-8	CAD AB OEL	TWA	200 mg/m3
		CAD BC OEL	TWA	200 mg/m3
		CAD MB OEL	TWA	200 mg/m3
		CAD MB OEL	TWA	200 mg/m3
		CAD ON OEL	TWAEV	200 mg/m3
		CAD ON OEL	TWAEV	525 mg/m3
		CAD ON OEL	TWAEV	200 mg/m3
		CAD SK OEL	15 MIN ACL	250 mg/m3
		CAD SK OEL	8 HR ACL	200 mg/m3

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to light yellow
Physical State	powder
Odor	very faint
pH	no data available
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Bulk density	12.2 lb/ft ³ (loose)
Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	no data available
Water solubility	insoluble

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Minimum Ignition Energy	no data available
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	not applicable
Viscosity	not applicable

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	Exposure to moisture.
Incompatibility	no data available
Hazardous Decomposition Products	No decomposition products expected under normal conditions of use.
Hazardous reactions	No dangerous reaction known under conditions of normal use.

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredients, pyrethrin and piperonyl butoxide.

Acute oral toxicity	rat: LD50: > 5,000 mg/kg
Acute dermal toxicity	rabbit: LD50: > 2,000 mg/kg
Acute inhalation toxicity	rat: LC50: > 5.4 mg/l Exposure time: 4 h Determined in the form of dust. rat: LC50: > 20 mg/l Exposure time: 1 h Determined in the form of dust. Extrapolated from the 4 hr LC50.
Skin irritation	rabbit: Slight irritation
Eye irritation	rabbit: Mild eye irritation.
Sensitisation	guinea pig: Non-sensitizing.



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Chronic toxicity Piperonyl butoxide did not cause specific target organ toxicity in experimental animal studies.

Pyrethrin did not cause specific target organ toxicity in experimental animal studies.

Assessment carcinogenicity

Piperonyl butoxide was not carcinogenic in lifetime feeding studies in rats and mice.

Pyrethrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Pyrethrins including cinerins	8003-34-7	Group A4
Distillates (petroleum), hydrotreated light	64742-47-8	Group A3

NTP

None.

IARC

Piperonyl butoxide	51-03-6	Overall evaluation: 3
Distillates (petroleum), hydrotreated light	64742-47-8	Overall evaluation: 3
Distillates (petroleum), hydrotreated light	64742-47-8	Overall evaluation: 3
Distillates (petroleum), hydrotreated light	64742-47-8	Overall evaluation: 3

OSHA

None.

Reproductive toxicity Piperonyl butoxide did not cause reproductive toxicity in a two-generation study in rats.

Pyrethrin did not cause reproductive toxicity in a two-generation study in rats.

Developmental Toxicity Piperonyl butoxide did not cause developmental toxicity in rats and rabbits.

Pyrethrin did not cause developmental toxicity in rats and rabbits.

Mutagenicity Piperonyl butoxide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Pyrethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION



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Environmental precautions

Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose in accordance with all local, state/provincial and federal regulations.

Container Disposal

Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

TDG

Not dangerous goods / not hazardous material

49CFR

UN number **3077**
Class 9
Packaging group III
Marine pollutant Marine pollutant
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (PYRETHRINS)
RQ Reportable Quantity is reached with 100 lb of product.

IMDG

UN number **3077**
Class 9
Packaging group III
Marine pollutant YES
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PYRETHRINS MIXTURE)

IATA

UN number **3077**
Class 9
Packaging group III
Environm. Hazardous Mark YES
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.



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(PYRETHRINS MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15. REGULATORY INFORMATION

PCP Registration No. 15255

US Federal Regulations

TSCA list

Distillates (petroleum), hydrotreated light 64742-47-8

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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 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

Pyrethrins including cinerins	8003-34-7	CA, CT, IL, MN, NJ, RI
Piperonyl butoxide	51-03-6	NJ, RI
Distillates (petroleum), hydrotreated light	64742-47-8	CT, NJ

Canadian Regulations

Canadian Domestic Substance List

Pyrethrins including cinerins	8003-34-7
Piperonyl butoxide	51-03-6
Distillates (petroleum), hydrotreated light	64742-47-8

Environmental

CERCLA

Pyrethrins including cinerins 8003-34-7 1 lbs

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.



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International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Pyrethrins including cinerins	8003-34-7
Distillates (petroleum), hydrotreated light	64742-47-8

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 2 Instability - 0 Others - none

HMS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 2 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Reviewed and updated for general editorial purposes.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

Revision Date: 05/13/2015

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