

SAFETY DATA SHEET



DRIONE® INSECTICIDE DUST

Version 2.0 / CDN
102000027086

1/11
Revision Date: 12/11/2018
Print Date: 12/13/2018

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

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

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide
Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer CropScience Inc
#200, 160 Quarry Park Blvd, SE
Calgary, Alberta T2C 3G3
Canada
Responsible Department Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.
Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577
Product Information Telephone Number 1-888-283-6847

SECTION 2: HAZARDS IDENTIFICATION

Classified in accordance with Part 2 of the Hazardous Products Regulations

This material is not hazardous under the criteria of Part 2 of the Hazardous Products Regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.
No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Pyrethrins including cinerins	8003-34-7	1.0
Piperonyl butoxide	51-03-6	9.7
Distillates (petroleum), hydrotreated light	64742-47-8	48.4

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SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
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.
Skin contact	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.
Eye contact	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.
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.
Most important symptoms and effects, both acute and delayed	
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).
Indication of any immediate medical attention and special treatment needed	
Risks	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.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable	Carbon dioxide (CO ₂), Dry chemical, Foam, Water
Unsuitable	High volume water jet

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Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
Advice for firefighters	
Special protective equipment for firefighters	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.
Flash point	Not applicable
Auto-ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosivity	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

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. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

Advice on protection Take measures to prevent the build up of electrostatic charge.

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against fire and explosion

Hygiene measures

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. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (TWA)	07 2009	CAD AB OEL
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (TWA)	09 2011	CAD BC OEL
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (TWA)	03 2011	CAD MB OEL
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (TWA)	11 2010	CAD ON OEL
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (8 HR ACL)	05 2009	CAD SK OEL
Pyrethrins including cinerins	8003-34-7	10 mg/m ³ (15 MIN ACL)	05 2009	CAD SK OEL
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (TWA)	11 2011	OEL (QUE)
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (TWA)		OES BCS*
Piperonyl butoxide	51-03-6	50 ppm (TWA)		OES BCS*
Distillates (petroleum), hydrotreated light (Vapor.)	64742-47-8	200 mg/m ³ (TWA)	07 2009	CAD AB OEL

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Distillates (petroleum), hydrotreated light (Non-aerosol.)	64742-47-8	200 mg/m ³ (TWA)	09 2011	CAD BC OEL
Distillates (petroleum), hydrotreated light (Non-aerosol.)	64742-47-8	200 mg/m ³ (TWA)	03 2011	CAD MB OEL
Distillates (petroleum), hydrotreated light (Non-aerosol.)	64742-47-8	200 mg/m ³ (TWA)	03 2011	CAD MB OEL
Distillates (petroleum), hydrotreated light (Non-aerosol.)	64742-47-8	200 mg/m ³ (TWA)	11 2010	CAD ON OEL
Distillates (petroleum), hydrotreated light	64742-47-8	525 mg/m ³ (TWA)	11 2010	CAD ON OEL
Distillates (petroleum), hydrotreated light (Non-aerosol.)	64742-47-8	200 mg/m ³ (TWA)	11 2010	CAD ON OEL
Distillates (petroleum), hydrotreated light (Vapor.)	64742-47-8	200 mg/m ³ (8 HR ACL)	05 2009	CAD SK OEL
Distillates (petroleum), hydrotreated light (Vapor.)	64742-47-8	250 mg/m ³ (15 MIN ACL)	05 2009	CAD SK OEL

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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.

Hand protection

Chemical resistant nitrile rubber gloves

Eye protection

Safety glasses with side-shields

Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

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Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to light yellow
Physical State	powder
Odor	very faint
Odour Threshold	No data available
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
Minimum Ignition Energy	No data available
Decomposition temperature	No data available
Partition coefficient: n-octanol/water	Not applicable
Viscosity	Not applicable
Flash point	Not applicable
Auto-ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosivity	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	No data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

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Conditions to avoid	Exposure to moisture.
Incompatible materials	No data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin Absorption, Ingestion, Inhalation
Immediate Effects	
Eye	May cause eye irritation.
Skin	Harmful if absorbed through skin. May cause slight irritation.
Inhalation	Inhalation may cause irritation of nasal passages.
Information on toxicological effects	
Acute oral toxicity	LD50 (Rat) > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat) > 5.4 mg/l Exposure time: 4 h Determined in the form of dust.
Acute dermal toxicity	LD50 (Rabbit) > 2,000 mg/kg
Skin corrosion/irritation	slight irritation (Rabbit)
Serious eye damage/eye irritation	Mild eye irritation. (Rabbit)
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity – repeated exposure

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 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.

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.

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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.

Assessment toxicity to reproduction

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.

Assessment developmental toxicity

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

Further information

Only acute toxicity studies have been performed on the formulated product.
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability	Piperonyl butoxide: Not rapidly biodegradable Pyrethrin: Not rapidly biodegradable
Koc	Piperonyl butoxide: Koc: 399 - 830 Pyrethrin: Koc: 12472 - 74175
Bioaccumulation	Piperonyl butoxide: Potential bioaccumulation Pyrethrin: Bioconcentration factor (BCF) 471 Does not bioaccumulate.
Mobility in soil	Piperonyl butoxide: Moderately mobile in soils Pyrethrin: Immobile in soil
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

Waste treatment methods

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Product	Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.

SECTION 14: TRANSPORT INFORMATION

TDG

UN number	3077
Labels	9
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PYRETHRINS)

49CFR

UN number	3077
Class	9
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	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
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PYRETHRINS MIXTURE)

IATA

UN number	3077
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (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.

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Further Information Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

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

SECTION 15: REGULATORY INFORMATION

PCP Registration No. 15255

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

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

HMIS (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: Revised according to the current Canadian WHMIS standard (WHMIS 2015).

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

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