



**PYRENONE® STABILENE® HORSE INSECTICIDE**

Version 3.0 / USA  
102000004840

1/12  
Revision Date: 05/28/2015  
Print Date: 08/19/2015

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

**Product identifier**

**Trade name** PYRENONE® STABILENE® HORSE INSECTICIDE  
**Product code (UVP)** 05952182  
**SDS Number** 102000004840  
**EPA Registration No.** 432-995

**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 Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States  
**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** 1-800-331-2867

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Aspiration hazard : Category 1  
Flammable liquids : Category 4



**Signal word:** Danger

**Hazard statements**

May be fatal if swallowed and enters airways.  
Combustible liquid

**Precautionary statements**

Keep away from open flames/hot surfaces. - No smoking.  
Wear protective gloves and eye protection/face protection.



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IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.  
Do NOT induce vomiting.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local regulation.

**Other hazards**

No other hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Pyrethrins including cinerins	8003-34-7	0.1
Piperonyl butoxide	51-03-6	1.0
Butoxypolypropylene glycol	9003-13-8	15.0
Distillates (petroleum), hydrotreated light	64742-47-8	80.0

**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**



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<b>Risks</b>	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
<b>Treatment</b>	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: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam, Water

**Unsuitable** High volume water jet

**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 fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** 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.

**Flash point** 73 °C  
**Autoignition temperature** no data available

**Lower explosion limit** 0.6 %(V)  
The data refer to the solvent.

**Upper explosion limit** 7 %(V)  
The data refer to the solvent.

**Explosivity** not applicable

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**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** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Do not allow to enter soil, waterways or waste water canal.



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**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** 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.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**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. 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.

**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/m3 (TWA)	02 2012	ACGIH
Pyrethrins including cinerins	8003-34-7	5 mg/m3 (REL)	2010	NIOSH
Pyrethrins including cinerins	8003-34-7	5 mg/m3 (PEL)	02 2006	OSHA Z1
Pyrethrins including cinerins	8003-34-7	5 mg/m3 (TWA)	1989	OSHA Z1A
Pyrethrins including cinerins	8003-34-7	5 mg/m3 (TWA)	06 2008	TN OEL
Pyrethrins including cinerins	8003-34-7	5ug/m3 (AN ESL)	07 2011	TX ESL
Pyrethrins including cinerins	8003-34-7	50ug/m3 (ST ESL)	07 2011	TX ESL



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Pyrethrins including cinerins	8003-34-7	5 mg/m3 (TWA PEL)	08 2010	US CA OEL
Pyrethrins including cinerins	8003-34-7	5 mg/m3 (TWA)		OES BCS*
Piperonyl butoxide	51-03-6	500 ppm (TWA)		OES BCS*
Distillates (petroleum), hydrotreated light (Non-aerosol.)	64742-47-8	200 mg/m3 (TWA)	02 2012	ACGIH
Distillates (petroleum), hydrotreated light (Non-aerosol.)	64742-47-8	200 mg/m3 (TWA)	02 2012	ACGIH
Distillates (petroleum), hydrotreated light	64742-47-8	100 mg/m3 (REL)	2010	NIOSH
Distillates (petroleum), hydrotreated light	64742-47-8	350ug/m3 (AN ESL)	07 2011	TX ESL
Distillates (petroleum), hydrotreated light	64742-47-8	3500ug/m3 (ST ESL)	07 2011	TX ESL
Butoxypolypropylene glycol (Particulate.)	9003-13-8	50ug/m3 (ST ESL)	02 2013	TX ESL
Butoxypolypropylene glycol (Vapor.)	9003-13-8	1000ug/m3 (ST ESL)	02 2013	TX ESL
Butoxypolypropylene glycol (Particulate.)	9003-13-8	5ug/m3 (AN ESL)	02 2013	TX ESL
Butoxypolypropylene glycol (Vapor.)	9003-13-8	100ug/m3 (AN ESL)	02 2013	TX ESL

\*OES BCS: Internal Bayer CropScience "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.

Keep and wash PPE separately from other laundry.



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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	beige to brown
<b>Physical State</b>	liquid
<b>Odor</b>	of aromatic hydrocarbons
<b>Odour Threshold</b>	no data available
<b>pH</b>	not applicable
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 0.81 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	insoluble
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Viscosity</b>	no data available
<b>Flash point</b>	73 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	0.6 %(V) The data refer to the solvent.
<b>Upper explosion limit</b>	7 %(V) The data refer to the solvent.
<b>Explosivity</b>	not applicable

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**SECTION 10: STABILITY AND REACTIVITY**

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



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<b>Conditions to avoid</b>	Heat, flames and sparks. Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Ingestion, Eye contact, Skin contact

**Immediate Effects**

**Eye** May cause slight irritation.

**Skin** May cause slight irritation.

**Ingestion** Harmful if swallowed.

**Information on toxicological effects**

**Acute oral toxicity** LD50 (rat) > 5,000 mg/kg

**Acute inhalation toxicity** LC50 (rat) > 4.0 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.

LC50 (rat) > 16.0 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.

**Acute dermal toxicity** LD50 (rabbit) > 2,000 mg/kg

**Skin irritation** Slight irritation (rabbit)

**Eye irritation** Slight irritation (rabbit)

**Sensitisation** Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**

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

**Assessment mutagenicity**

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

**Assessment carcinogenicity**

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

**ACGIH**

Pyrethrins including cinerins

8003-34-7

Group A4



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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.

**Assessment toxicity to reproduction**

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

**Assessment developmental toxicity**

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

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**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 0.0052 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient.

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 0.012 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient.

**Biodegradability** Pyrethrin:  
not rapidly biodegradable  
Piperonyl butoxide:  
not rapidly biodegradable

**Koc** Pyrethrin: Koc: 12472 - 74175  
Piperonyl butoxide: Koc: 399 - 830

**Bioaccumulation** Pyrethrin: Bioconcentration factor (BCF) 471  
Does not bioaccumulate.  
Piperonyl butoxide:  
Potential bioaccumulation

**Mobility in soil** Pyrethrin: Immobile in soil





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Piperonyl butoxide: Moderately mobile in soils

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

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product** Dispose of contents/container in accordance with local regulation.  
Follow container label instructions for disposal of wastes generated during use in compliance with the product label.  
Never place unused product down any indoor or outdoor drain.

**Contaminated packaging** Triple rinse containers.  
Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.  
If burned, stay out of smoke.  
Follow advice on product label and/or leaflet.

**RCRA Information** Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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**SECTION 14: TRANSPORT INFORMATION**

**49CFR**

NA-Number **1993**  
Packaging group **III**  
Proper shipping name **COMBUSTIBLE LIQUID, N.O.S.  
(PETROLEUM DISTILLATES, PYRETHRINS)**  
RQ **Reportable Quantity is reached with 1,000 lb of product.**

**IMDG**

UN number **3082**  
Class **9**  
Packaging group **III**  
Marine pollutant **YES**  
Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(PYRETHRINS SOLUTION)**

**IATA**

UN number **3082**  
Class **9**  
Packaging group **III**



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Environm. Hazardous Mark YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(PYRETHRINS SOLUTION )

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**

**EPA Registration No.** 432-995

**US Federal Regulations**

**TSCA list**

Piperonyl butoxide 51-03-6  
Butoxypolypropylene glycol 9003-13-8  
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  
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**



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None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

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

**EPA/FIFRA Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed.  
Avoid contact with skin, eyes and clothing.  
Avoid contamination of feed and foodstuffs.  
Avoid breathing spray mist.

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**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms**

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
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



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**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 05/28/2015

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