



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

1/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

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

**Product identifier**

**Trade name** SIVANTO™ 200 SL

**Product code (UVP)** 79718845

**SDS Number** 102000021884

**EPA Registration No.** 264-1141

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

**Use** Insecticide

**Restrictions on use** See product label for restrictions.

**Information on manufacturer**

Bayer CropScience  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Emergency telephone no.**

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-866-99BAYER (1-866-992-2937)

**SDS Information or Request** SDSINFO.BCS-NA@bayer.com

**SECTION 2: HAZARDS IDENTIFICATION**

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

Skin sensitisation : Category 1

Acute toxicity (Inhalation): Category 4



**Signal word:** Warning

**Hazard statements**

May cause an allergic skin reaction.  
Harmful if inhaled.

**Precautionary statements**

Avoid breathing mist and spray.  
Contaminated work clothing should not be allowed out of the workplace.



## SIVANTO™ 200 SL

Version 2.1 / USA  
102000021884

2/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

Wear protective gloves.  
IF ON SKIN: Wash with plenty of water/soap.  
If skin irritation or rash occurs: Get medical advice/attention.  
Specific treatment (see supplemental first aid instructions on this label).  
Wash contaminated clothing before reuse.  
Dispose of contents/container in accordance with local regulation.

### Other hazards

No particular hazards known.

---

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Flupyradifurone	951659-40-8	17.09
Propylene carbonate	108-32-7	42.88

---

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	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.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

### Most important symptoms and effects, both acute and delayed

**Symptoms** No symptoms known or expected.

### Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

---



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

3/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

---

**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Sand

**Unsuitable** None known.

**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** In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** > 100 °C

**Autoignition temperature** 420 °C / 788 °F

**Lower explosion limit** no data available

**Upper explosion limit** no data available

**Explosivity** Not explosive  
92/69/EEC, A.14 / OECD 113

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** 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** Use personal protective equipment. 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**



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

4/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

**Precautions for safe handling**

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

**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. Protect from freezing. Keep away from direct sunlight.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Propylene carbonate (Particulate.)	108-32-7	5ug/m3 (AN ESL)	02 2013	TX ESL
Propylene carbonate (Particulate.)	108-32-7	50ug/m3 (ST ESL)	02 2013	TX ESL
Propylene carbonate (Vapor.)	108-32-7	500ug/m3 (ST ESL)	02 2013	TX ESL
Propylene carbonate (Vapor.)	108-32-7	50ug/m3 (AN ESL)	02 2013	TX ESL

**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** Tightly fitting safety goggles

**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.



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

5/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	light yellow to brown, shades of orange
<b>Physical State</b>	Liquid slightly turbid
<b>Odor</b>	characteristic
<b>Odour Threshold</b>	no data available
<b>pH</b>	5.0 - 7.0 at 1 % (23 °C) (deionized water)
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 1.17 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>	soluble
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	not applicable
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	no data available
<b>Flash point</b>	> 100 °C
<b>Autoignition temperature</b>	420 °C / 788 °F
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	Not explosive 92/69/EEC, A.14 / OECD 113
<b>Other information</b>	Further safety related physical-chemical data are not known.

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	
<b>Thermal decomposition</b>	not applicable
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

6/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

---

<b>Conditions to avoid</b>	freezing Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	no data available
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Exposure routes</b>	Ingestion, Skin contact, Eye contact
<b>Immediate Effects</b>	
<b>Eye</b>	Moderate eye irritation.
<b>Skin</b>	Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
<b>Ingestion</b>	Harmful if swallowed.

**Information on toxicological effects**

<b>Acute oral toxicity</b>	LD50 (female rat) > 2,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (female rat) ca. 3.496 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol.  LC50 (female rat) ca. 13.984 mg/l Exposure time: 1 h Determined in the form of a respirable aerosol. Extrapolated from the 4 hr LC50.
<b>Acute dermal toxicity</b>	LD50 (male/female combined rat) > 2,000 mg/kg
<b>Skin irritation</b>	No skin irritation (rabbit)
<b>Eye irritation</b>	No eye irritation (rabbit)
<b>Sensitisation</b>	Sensitising (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

**Assessment repeated dose toxicity**

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

**Assessment Mutagenicity**

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

**Assessment Carcinogenicity**

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

**ACGIH**

None.

**NTP**



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

7/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

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

**Assessment developmental toxicity**

Flupyradifurone 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**

<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 684 mg/l Exposure time: 48 h
<b>Chronic toxicity to aquatic invertebrates</b>	EC50 (Chironomus riparius (non-biting midge)): 0.161 mg/l Exposure time: 28 d
<b>Toxicity to aquatic plants</b>	IC50 (Pseudokirchneriella subcapitata) > 250 mg/l Growth rate; Exposure time: 72 h
<b>Biodegradability</b>	Flupyradifurone: ; not rapidly biodegradable
<b>Koc</b>	Flupyradifurone: Koc: 93
<b>Bioaccumulation</b>	Flupyradifurone: ; Does not bioaccumulate.
<b>Mobility in soil</b>	Flupyradifurone: Moderately mobile in soils
<b>Additional ecological information</b>	No other effects to be mentioned.
<b>Environmental precautions</b>	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.

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

8/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

---

<b>Product</b>	In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.
<b>Contaminated packaging</b>	Do not re-use empty containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	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.

---

**SECTION 14: TRANSPORT INFORMATION**

<b>49CFR</b>	Not dangerous goods / not hazardous material
<b>IMDG</b>	
UN number	<b>3082</b>
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUPYRADIFURONE SOLUTION)
<b>IATA</b>	
UN number	<b>3082</b>
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUPYRADIFURONE 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.

---

**SECTION 15: REGULATORY INFORMATION**

<b>EPA Registration No.</b>	264-1141
<b>US Federal Regulations</b>	
<b>TSCA list</b>	
Propylene carbonate	108-32-7
<b>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</b>	
None.	





**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

9/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

---

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

**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**

None.

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**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 or absorbed through skin.  
Moderate eye irritation.  
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

---

**SECTION 16: OTHER INFORMATION**



**SIVANTO™ 200 SL**

Version 2.1 / USA  
102000021884

10/10  
Revision Date: 01/16/2015  
Print Date: 01/22/2015

---

**NFPA 704 (National Fire Protection Association):**

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

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

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

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

**Reason for Revision:** The following sections have been revised: Section 12. Ecological information.

**Revision Date:** 01/16/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.