



**Material Safety Data Sheet**  
**PROSPER EVERGOL**

MSDS Number: 102000022377  
MSDS Version 1.1  
Revision Date: 03/21/2012  
Print Date: 03/21/2012

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product name** PROSPER EVERGOL  
**MSDS Number** 102000022377  
**Product code (UVP)** 79659202  
**Product Use** Seed treatment

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

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-866-99BAYER (1-866-992-2937)

**SECTION 2. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Avoid inhalation of vapour or mist. Avoid contact with skin, eyes and clothing. Do not take internally. Wash thoroughly with soap and water after handling.

**Physical State** liquid

**Odor** characteristic

**Appearance** blue

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

**Potential Environmental Effect** Toxic to aquatic organisms. Toxic to bees. Toxic to birds.



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#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Clothianidin	210880-92-5	22.30
Penflufen	494793-67-8	0.82
Trifloxystrobin	141517-21-7	0.55
Metalaxyl	57837-19-1	0.55
1,2-Propanediol	57-55-6	11.70
Titanium dioxide	13463-67-7	14.85
Polyethylene-polypropylene copolymer	9003-11-6	2.00

#### SECTION 4. FIRST AID MEASURES

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</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>skin</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>Ingestion</b>	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.
<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>Notes to physician Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

#### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	No flash point - Determination conducted up to the boiling point.
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available



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**Upper Flammability Limit** no data available

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

**Fire Fighting Instructions** 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.

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

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**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.

## SECTION 7. HANDLING AND STORAGE

**Handling procedures** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**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. Protect from freezing.

**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.



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**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.

Follow all label instructions. Train employees in safe use of the product.

**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**

Clothianidin	210880-92-5	OES BCS*	TWA	2.8 mg/m3
Trifloxystrobin	141517-21-7	OES BCS*	TWA	2.7 mg/m3
Metalaxyl	57837-19-1	TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
1,2-Propanediol	57-55-6	WEEL	TWA	10 mg/m3
		TX ESL	ST ESL	20 ug/m3
		TX ESL	ST ESL	500 ppm
		TX ESL	AN ESL	2 ug/m3
		TX ESL	AN ESL	50 ppm
		TX ESL	AN ESL	50 ppm
Titanium dioxide	13463-67-7	ACGIH	TWA	10 mg/m3
		OSHA Z1	PEL	15 mg/m3
		OSHA Z1A	TWA	10 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
		TX ESL	TWA	10 mg/m3

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** blue

**Physical State** liquid

**Odor** characteristic



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<b>pH</b>	7.5 - 9.5 (100 %) at 23 °C
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	1.30 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>	dispersible
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	250 - 500 mPa.s
	190 - 250 mPa.s at 20 °C Velocity gradient 20 /s
	70 - 150 mPa.s at 20 °C Velocity gradient 100 /s

## SECTION 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatibility</b>	no data available
<b>Hazardous Decomposition Products</b>	no data available
<b>Hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Chemical Stability</b>	Stable under normal conditions.



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**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.

**Acute oral toxicity**                   rat: LD50: > 2,000 mg/kg

**Acute dermal toxicity**               rat: LD50: > 2,000 mg/kg

**Acute inhalation toxicity**       rat: LC50: > 2.254 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.

rat: LC50: > 9.016 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.

**Skin irritation**                       rabbit: No skin irritation

**Eye irritation**                       rabbit: No eye irritation

**Sensitisation**                       mouse: Non-sensitizing.

**Chronic toxicity**                   Clothianidin did not cause specific target organ toxicity in experimental animal studies.

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

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

Metalaxyl caused liver effects in chronic studies in mice, rats and/or dogs.

**Assessment Carcinogenicity**

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

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

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

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

**ACGIH**

Titanium dioxide

13463-67-7

Group A4

**NTP**

None.

**IARC**



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Titanium dioxide  
**OSHA**  
None.

13463-67-7

Overall evaluation: 2B

**Reproductive toxicity**

Clothianidin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Clothianidin is related to general toxicity.

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

Trifloxystrobin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Trifloxystrobin is related to general toxicity.

Metalaxyl did not cause reproductive toxicity in a multi-generation study in rats.

**Developmental Toxicity**

Clothianidin did not cause developmental toxicity in rats.

Clothianidin caused developmental toxicity in rabbit only at dose levels toxic to the dams. The developmental effects seen with Clothianidin are related to maternal toxicity.

Penflufen did not cause developmental toxicity in rats and rabbits.

Trifloxystrobin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Trifloxystrobin are related to maternal toxicity.

**Assessment neurotoxicity**

Clothianidin was not a neurotoxicant in acute, subchronic and developmental neurotoxicity screening studies in rats.

Trifloxystrobin is not a primary neurotoxicant based on an acute (oral gavage) neurotoxicity screening study in rats.

**Assessment neurotoxicity**

Metalaxyl neurotoxicity studies are not required at this time.

**Mutagenicity**

Clothianidin was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

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

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

Metalaxyl was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.



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**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to fish**

Rainbow trout (*Oncorhynchus mykiss*)  
LC50: > 104.2 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient clothianidin.

Rainbow trout (*Oncorhynchus mykiss*)  
LC50: 0.015 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient trifloxystrobin.

**Toxicity to aquatic plants**

*Pseudokirchneriella subcapitata*  
Growth rate  
IC50: > 120 mg/l  
Exposure time: 72 h  
The value mentioned relates to the active ingredient clothianidin.

*Desmodium subspicatus*  
Growth rate  
IC50: 0.0053 mg/l  
Exposure time: 72 h  
The value mentioned relates to the active ingredient trifloxystrobin.

**Acute Toxicity to Aquatic Invertebrates**

Water flea (*Daphnia magna*)  
EC50: > 119 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient clothianidin.

*Chironomus riparius* (non-biting midge)  
EC50: 0.00106 mg/l  
Exposure time: 28 d  
The value mentioned relates to the active ingredient clothianidin.

Water flea (*Daphnia magna*)  
EC50: 0.016 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient trifloxystrobin.

**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. Apply this product as specified on the label.





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**SECTION 13. DISPOSAL CONSIDERATIONS**

<b>General Disposal Guidance</b>	Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Follow advice on product label and/or leaflet.
<b>Container Disposal</b>	Do not re-use empty containers. Triple rinse 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. If burned, stay out of smoke. 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
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOTHIANIDIN, TRIFLOXYSTROBIN SOLUTION)
<b>IATA</b>	
UN-Number	<b>3082</b>
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOTHIANIDIN, TRIFLOXYSTROBIN 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.



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**SECTION 15. REGULATORY INFORMATION**

**US Federal Regulations**

**TSCA list**

1,2-Propanediol	57-55-6
Titanium dioxide	13463-67-7
Polyethylene-polypropylene copolymer	9003-11-6

**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**

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**

1,2-Propanediol	57-55-6	MN, RI
Titanium dioxide	13463-67-7	IL, MN, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

1,2-Propanediol	57-55-6
Titanium dioxide	13463-67-7
Polyethylene-polypropylene copolymer	9003-11-6

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

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

Metalaxyl	57837-19-1
Titanium dioxide	13463-67-7



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**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

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

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

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

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

Reason for Revision: New Material Safety Data Sheet.

Revision Date: 03/21/2012

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