

MSDS Number: 102000017161 MSDS Version 1.0 Revision Date: 08/13/2007

Average % by Weight

22.40

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

Product Name MSDS Number

MOVENTO<sup>™</sup> 102000017161

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)

CAS-No.

203313-25-1

### **SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name Spirotetramat

Trade Secret Ingredient(s)

### SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information. **Emergency Overview** Caution! Harmful if swallowed or absorbed through skin. Avoid contact with skin and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. **Physical State** liquid Odor aromatic white Appearance **Routes of Exposure** Skin contact, Skin Absorption, Ingestion **Immediate Effects** Eye May cause mild irritation to eyes. Avoid contact with eyes. Skin Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin and clothing.



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Ingestion	Harmful if swallowed. Do not take internally.
Chronic or Delayed Long-Term	This product or its components may have target organ effects.
Potential Environmental Effect	Toxic to oysters and shrimp.

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

### **SECTION 5. FIRE FIGHTING MEASURES**

Flash point	> 100 °C / 212 °F
Fire and Explosion Hazards	In the event of fire the following can be released: Hydrogen cyanide (hydrocyanic acid) carbon monoxide (CO) nitrogen oxides (NOx)
Suitable Extinguishing Media	Water spray, Carbon dioxide (CO2), Foam, Sand



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Fire FightingKeep out of smoke. Fight fire from upwind position. Cool closed containers/<br/>tanks exposed to fire with water spray. Do not allow run-off from fire fighting to<br/>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). 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 pesticides, 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 all label instructions. Train employees in safe use of the product.

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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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	This product contains material which are Trade Secret and may have Occupational Exposure Limits. If more information is required, call the product information number listed in Section 1.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	white
Physical State	liquid
Odor	aromatic
рН	4.5
Density	approx. 1.075 g/cm³ at 20 °C

### SECTION 10. STABILITY AND REACTIVITY

Hazardous Reactions Stable under normal conditions.

### 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 ingredient, Spirotetramat.

Acute Oral Toxicity female rat: LD50: > 2,000 mg/kg

Acute Dermal Toxicity male/female combined rat: LD50: > 4,000 mg/kg



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Acute Inhalation Toxicity	male/female combined rat: LC50: > 3 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. highest concentration tested No deaths male/female combined rat: LC50: > 12 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: Mild eye irritation.
Sensitization	guinea pig: sensitizing
Chronic Toxicity	Spirotetramat caused liver and lung effects in the rat; thyroid effects were observed exclusively in the dog.

### **Assessment Carcinogenicity**

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

ACGIH None. NTP None. IARC None. OSHA None.	
Reproductive & Developmental Toxicity	REPRODUCTION: Spirotetramat caused a morphologic effect on sperm in high- dosed male rats without affecting the overall fertility.
	DEVELOPMENTAL TOXICITY: Spirotetramat was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in rats at doses that caused maternal toxicity.
Neurotoxicity	Spirotetramat was not a neurotoxicant in an acute neurotoxicity screening study in rats.
Mutagenicity	Spirotetramat is not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

## **SECTION 12. ECOLOGICAL INFORMATION**



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**Environmental Precautions** Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

General Disposal Guidance	Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Container Disposal	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.

#### SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION: Not regulated for Domestic Surface Shipment

FREIGHT CLASSIFICATION: Insecticides or Fungicides, N.O.I.; other than poison

### **SECTION 15. REGULATORY INFORMATION**

This product contains material(s) which are Trade Secret and are on various Regulatory Lists. These material(s) are not listed below.

#### US Federal Regulations

**TSCA** list

None.

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



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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.

## SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):<br/>Health - 1Flammability - 1Reactivity - 0Others - none0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated due to new numbering scheme.

Revision Date: 08/13/2007

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