



Partners with solutions

# MATERIAL SAFETY DATA SHEET

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TRANSPORTATION EMERGENCY (24 hours a day)  
CHEMTREC: .....(800) 424-9300

EMERGENCY (24 hours a day) AND PRODUCT INFORMATION  
OHP, Inc.: .....(800) 356-4647

## Kontos™

EPA Registration Number: 432-1471-59807

### I. PRODUCT IDENTIFICATION

PRODUCT NAME .....: KONTOS™  
PRODUCT USE .....: Insecticide / Miticide

**Chronic or Delayed Long-Term** .....: This product or its components may have target organ effects.  
**Potential Environmental Effect** .....: Toxic to oysters and shrimp.

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS #	Average % by Weight
Spirotetramat	203313-25-1	22.40
Trade Secret Ingredient(s)		

### IV. 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.  
**Eye** .....: 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.

### III. HAZARDS IDENTIFICATION

NOTE: Please refer to Section XI. 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.

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

**Physical State** .....: liquid  
**Odor** .....: aromatic  
**Appearance** .....: white  
**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.  
**Ingestion** .....: Harmful if swallowed. Do not take internally.

### V. 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)

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### Suitable Extinguishing

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

**Fire Fighting Instructions** .....: Keep out of smoke. Fight fire from upwind position. Cool closed containers/tanks 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.

### VI. 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.

### VII. 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.

### VIII. 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.

**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.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** .....: white

**Physical State** .....: liquid

**Odor** .....: aromatic

**pH** .....: 4.5

**Density** .....: approx. 1.075 g/cm<sup>3</sup> at 20° C

### X. STABILITY AND REACTIVITY

**Hazardous Reactions** .....: Stable under normal conditions.

### XI. 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.

## XII. ECOLOGICAL INFORMATION

**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.

## XIII. 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.

## XIV. TRANSPORT INFORMATION

### TRANSPORTATION CLASSIFICATION:

Not regulated for Domestic Surface Shipment

### FREIGHT CLASSIFICATION:

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

## XV. REGULATORY INFORMATION

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

**EPA Registration No.** . . . . .: 432-1471-59807

### US Federal Regulations

**TSCA list** . . . . .: None.

**US Toxic Substances Control Act (TSCA) Section 12(b)Export Notification (40 CFR 707, Subpt D)** . . : None.

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**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.

### XVI. OTHER INFORMATION

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

Health - 1 Flammability - 1 Reactivity - 0 Others - none

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

Revision Date: 08/13/2007

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.

Kontos is a trademark of Bayer.

