



**Material Safety Data Sheet**

**STORCIDE™ II GRAIN, BIN AND WAREHOUSE  
INSECTICIDE**

MSDS Number: 102000012928

MSDS Version 2.0

Revision Date: 04/19/2006

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

**Product Name** STORCIDE™ II GRAIN, BIN AND WAREHOUSE INSECTICIDE  
**MSDS Number** 102000012928  
**EPA Registration No.** 264-992

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. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Chlorpyrifos-methyl	5598-13-0	21.60
Deltamethrin	52918-63-5	3.70
1,2,4-Trimethylbenzene	95-63-6	18.70
Xylene	1330-20-7	13.85
Ethylbenzene	100-41-4	2.77

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Danger! Corrosive - causes irreversible eye damage. Causes eye irritation. Causes skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if inhaled. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Extremely toxic to fish. Highly toxic to bees.

**Physical State** liquid  
**Odor** of mercaptans  
**Appearance** amber  
**Routes of Exposure** Inhalation, Ingestion, Eye contact, Skin contact, Skin Absorption  
**Immediate Effects**  
**Eye** Corrosive - causes irreversible eye damage. May produce severe eye irritation. Vapors and mists can cause irritation. Do not get in eyes.



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<b>Skin</b>	Moderate skin irritation. May cause a transient, localized paresthesia, characterized by tingling, burning or numbness sensation in some individuals. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes, on skin, or on clothing.
<b>Ingestion</b>	Do not take internally. Harmful if swallowed.
<b>Inhalation</b>	Inhalation of high concentrations of solvent vapors can cause nausea, vomiting, dizziness, drowsiness and incoordination. May cause respiratory tract irritation. Harmful if inhaled. Do not breathe vapours or spray mist.
<b>Chronic or Delayed Long-Term</b>	This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic). This product or its components may have target organ effects.

**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>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. 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 gulps 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</b>	
<b>    Hazards</b>	May pose an aspiration pneumonia hazard. Cholinesterase inhibitor.
<b>    Treatment</b>	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash Point</b>	48.9 °C / 120.0 °F
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<b>Fire and Explosion Hazards</b>	Under fire conditions, toxic, corrosive fumes are emitted. Keep away from open flames, hot surfaces and sources of ignition.
<b>Suitable Extinguishing Media</b>	foam, carbon dioxide (CO2), dry chemical, water spray
<b>Fire Fighting Instructions</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.  Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<b>Methods for Cleaning Up</b>	Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>Additional Advice</b>	Use personal protective equipment. Do not allow product to enter streams, sewers or other waterways.

**SECTION 7. HANDLING AND STORAGE**

<b>Handling Procedures</b>	Handle and open container in a manner as to prevent spillage.
<b>Storing Procedures</b>	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.
<b>Work/Hygienic Procedures</b>	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.  Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing.
<b>Min/Max Storage</b>	Do not transport or store below -7 °C / 19 °F



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**Temperatures** Do not transport or store above 49 °C / 120 °F

**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.
- Engineering Controls** Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
- Eye/Face Protection** tightly fitting safety goggles
- 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**

1,2,4-Trimethylbenzene	95-63-6	NIOSH	REL	25 ppm	125 mg/m3
		ACGIH	TWA		25 ppm
		OSHA Z1A	TWA	25 ppm	125 mg/m3
		US CA OEL	TWA PEL	25 ppm	125 mg/m3
Xylene	1330-20-7	ACGIH	TWA		100 ppm
		ACGIH	STEL		150 ppm
		OSHA Z1	PEL	100 ppm	435 mg/m3
		OSHA Z1A	TWA	100 ppm	435 mg/m3
		OSHA Z1A	STEL	150 ppm	655 mg/m3
		US CA OEL	TWA PEL	100 ppm	435 mg/m3
		US CA OEL	Ceiling		300 ppm
		US CA OEL	STEL	150 ppm	655 mg/m3
		NIOSH	REL	100 ppm	435 mg/m3
		NIOSH	STEL	150 ppm	655 mg/m3
Ethylbenzene	100-41-4	NIOSH	REL	100 ppm	435 mg/m3
		NIOSH	STEL	150 ppm	655 mg/m3
		ACGIH	TWA		100 ppm
		ACGIH	STEL		125 ppm
		NIOSH	REL	100 ppm	435 mg/m3
		NIOSH	STEL	125 ppm	545 mg/m3
		OSHA Z1	PEL	100 ppm	435 mg/m3
		OSHA Z1A	TWA	100 ppm	435 mg/m3



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OSHA Z1A	STEL	125 ppm	545 mg/m3
US CA OEL	TWA PEL	100 ppm	435 mg/m3
US CA OEL	STEL	125 ppm	545 mg/m3

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	amber
<b>Physical State</b>	liquid
<b>Odor</b>	of mercaptans
<b>pH</b>	3.0 - 4.0 (1 %)
<b>Specific Gravity</b>	0.99 at 20 °C
<b>Water Solubility</b>	miscible

**SECTION 10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable
<b>Conditions to Avoid</b>	Exposure to extreme heat.
<b>Incompatibility</b>	strong bases oxidizing agents
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of: sulphides nitrogen oxides (NOx)

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral Toxicity</b>	rat: LD50: 150 mg/kg
<b>Acute Dermal Toxicity</b>	rat: LD50: > 5,000 mg/kg
<b>Acute Inhalation Toxicity</b>	rat: LC50: 0.53 - 2.58 mg/l Exposure time: 4 h
<b>Skin Irritation</b>	Moderate skin irritation.
<b>Eye Irritation</b>	Severe eye irritation.
<b>Sensitization</b>	guinea pig: Causes sensitization.



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**Assessment Carcinogenicity**

**ACGIH**

Xylene	1330-20-7	Group A4
Ethylbenzene	100-41-4	Group A3

**NTP**

None.

**IARC**

Deltamethrin	52918-63-5	Overall evaluation: 3
Xylene	1330-20-7	Overall evaluation: 3
Ethylbenzene	100-41-4	Overall evaluation: 2B

**OSHA**

None.

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Precautions**

Highly toxic to fish. Toxic to birds. Toxic to wildlife. 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 discharge into the drains/surface water/groundwater. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Exposed treated seed may be hazardous to birds. Apply this product only as specified on the label.

Highly toxic to bees. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance**

Open dumping is prohibited. Pesticide wastes are acutely hazardous. 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.

**RCRA Classification:**

The RCRA Classifications may be on the individual component(s) and not necessarily on the product as a whole.

1330-20-7	Xylene US. EPA Resource Conservation and Recovery Act (RCRA) U List of Hazardous Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA]): U239
100-41-4	Ethylbenzene



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US. EPA Resource Conservation and Recovery Act: (RCRA) D List of Characteristic Hazardous Wastes (40 CFR 261.21-24): D001

**SECTION 14. TRANSPORT INFORMATION**

TRANSPORTATION CLASSIFICATION:  
 RQ, Pesticides, Liquid, Toxic, Flammable, N.O.S. (chlorpyrifos-methyl, xylene range solvents), 6.1,(3), UN2903, PG III

FREIGHT CLASSIFICATION:  
 Insecticides or Fungicides, N.O.I.; poison, other than gases that are poisonous by inhalation

**SECTION 15. REGULATORY INFORMATION**

EPA Registration No. 264-992

**US Federal Regulations**

**TSCA list**

1,2,4-Trimethylbenzene	95-63-6
Xylene	1330-20-7
Ethylbenzene	100-41-4

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

Xylene	1330-20-7
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**SARA Title III - Section 302 - Notification and Information**

None.

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

Chlorpyrifos-methyl	5598-13-0	1.0%
1,2,4-Trimethylbenzene	95-63-6	1.0%
Xylene	1330-20-7	1.0%
Ethylbenzene	100-41-4	0.1%

**US States Regulatory Reporting**

**CA Prop65**

This product contains a chemical known to the State of California to cause cancer.

Ethylbenzene	100-41-4
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This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

Chlorpyrifos-methyl	5598-13-0	NJ
1,2,4-Trimethylbenzene	95-63-6	CA, IL, MN, NJ, PA, RI
Xylene	1330-20-7	CA, CT, IL, MI, MN, NJ, PA, RI
Ethylbenzene	100-41-4	CA, CT, IL, MN, NJ, PA, RI

**Canadian Regulations**



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**Canadian Domestic Substance List**

1,2,4-Trimethylbenzene	95-63-6
Xylene	1330-20-7
Ethylbenzene	100-41-4

**Environmental**

**CERCLA**

Xylene	1330-20-7	100 lbs
Ethylbenzene	100-41-4	1,000 lbs

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

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

Chlorpyrifos-methyl	5598-13-0
Deltamethrin	52918-63-5
1,2,4-Trimethylbenzene	95-63-6
Xylene	1330-20-7
Ethylbenzene	100-41-4

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 3      Flammability - 2      Reactivity - 1      Others - none

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

Reason to Revise: Update format to new system.

Revision Date: 04/19/2006

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