



**Material Safety Data Sheet**

**VITAVAX®-34**

MSDS Number: 102000012815  
 MSDS Version 2.0  
 Revision Date: 05/10/2006

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

**Product Name** VITAVAX®-34  
**MSDS Number** 102000012815  
**EPA Registration No.** 400-107-264

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>
Carboxin	5234-68-4	34.00
Attapulgite clay	12174-11-7	0.945

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! Harmful if inhaled. Avoid inhalation of vapour or mist. Avoid contact with skin, eyes and clothing.

**Physical State** suspension

**Odor** very faint

**Appearance** tan

**Routes of Exposure** Inhalation, Skin Absorption

**Immediate Effects**

**Eye** May cause eye irritation. Avoid contact with eyes.

**Skin** May cause irritation. Avoid contact with skin and clothing.

**Ingestion** Do not take internally.

**Inhalation** Avoid inhalation of vapour or mist. Harmful if inhaled.



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**Chronic or Delayed Long-Term**      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 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>	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>	105 °C / 221 °F
<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.



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**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>	<p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.</p> <p>Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.</p> <p>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.</p>

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

<b>General Protection</b>	<p>Follow all label instructions. Train employees in safe use of the product.</p> <p>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.</p>
<b>Engineering Controls</b>	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
<b>Eye/Face Protection</b>	tightly fitting safety goggles
<b>Hand Protection</b>	Chemical resistant nitrile rubber gloves
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.



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**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.

<b>Exposure Limits</b>					
Ethanediol	107-21-1	ACGIH	Ceiling		100 mg/m3
		Form of Exposure		Aerosol.	
		OSHA Z1A	Ceiling	50 ppm	125 mg/m3
		US CA OEL	Ceiling	40 ppm	100 mg/m3
		Form of Exposure		Vapor.	

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	tan
<b>Physical State</b>	suspension
<b>Odor</b>	very faint
<b>pH</b>	7 - 9 (undiluted)
<b>Vapor Pressure</b>	20 hPa / 15 mm Hg at 20 °C
<b>Specific Gravity</b>	1.15 at 20 °C
<b>Bulk Density</b>	9.5 - 9.7 lb./gal.
<b>Boiling Point</b>	102 °C / 216 °F
<b>Melting / Freezing Point</b>	-18 - -15 °C / -0 - 5 °F
<b>Water Solubility</b>	565 g/l at 20 °C
<b>Viscosity</b>	135 - 200 mPa.s

**SECTION 10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Extreme temperatures.
<b>Incompatibility</b>	strong acids and strong bases
<b>Hazardous Decomposition Products</b>	Thermal decomposition nitrogen oxides (NOx) Sulphur oxides



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**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute Oral Toxicity**      rat: LD50: > 5,000 mg/kg

**Acute Dermal Toxicity**      rabbit: LD50: 23,600 mg/kg

**Acute Inhalation Toxicity**      rat: LC50: > 20 mg/l  
 Exposure time: 1 h

**Skin Irritation**      rabbit: Moderate skin irritation.

**Eye Irritation**      rabbit: Minimally irritating.

**Sensitization**      guinea pig: Non-sensitizing.

**Chronic Toxicity**      Carboxin has shown possible kidney effects in animal studies.

**Assessment Carcinogenicity**

**ACGIH**

None.

**NTP**

None.

**IARC**

Attapulgate clay

12174-11-7

Overall evaluation: 2B

Attapulgate clay

12174-11-7

Overall evaluation: 3

**OSHA**

None.

**SECTION 12. 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. Drift or run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on the label.



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**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**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. Refer to the product label for other disposal instructions.

**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**

**EPA Registration No.** 400-107-264

**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**

Carboxin 5234-68-4 1.0%

**US States Regulatory Reporting**

**CA Prop65**

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

Attapulgit clay 12174-11-7

This product does not contain any substances known to the State of California to cause reproductive harm.

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

Carboxin	5234-68-4	NJ
Attapulgit clay	12174-11-7	CA

**Canadian Regulations**

**Canadian Domestic Substance List**

None.



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**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)**

Carboxin

5234-68-4

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**SECTION 16. OTHER INFORMATION**

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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

Reason to Revise: Update format to new system.

Revision Date: 05/10/2006

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