



**Material Safety Data Sheet**  
**GAUCHO® XT FLOWABLE**

MSDS Number: 102000012863  
 MSDS Version 2.1  
 Revision Date: 02/25/2008

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

**Product Name** GAUCHO® XT FLOWABLE  
**MSDS Number** 102000012863  
**EPA Registration No.** 264-971

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>
Imidacloprid	138261-41-3	12.70
Metalaxyl	57837-19-1	0.82
Tebuconazole	107534-96-3	0.62
Attapulgate clay	12174-11-7	1.13
Glycerine	56-81-5	

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist. Wash thoroughly with soap and water after handling.

**Physical State** liquid

**Odor** slight

**Appearance** red

**Routes of Exposure** Inhalation, Ingestion, Skin Absorption

**Immediate Effects**

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

**Skin** Harmful if absorbed through skin. May cause slight irritation. Avoid contact with skin and clothing.



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<b>Ingestion</b>	Do not take internally. Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled. Avoid inhalation of vapour or mist.
<b>Chronic or Delayed Long-Term</b>	This product or its components may have target organ effects.
<b>Potential Environmental Effect</b>	Highly toxic to aquatic invertebrates. Highly toxic to birds.

**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. 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 Hazards</b>	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
<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>	> 100 °C / 212 °F
<b>Fire and Explosion Hazards</b>	In the event of fire the following can be released: Hydrogen chloride (HCl) Nitrogen oxides (NOx)
<b>Suitable Extinguishing Media</b>	Foam, Carbon dioxide (CO2), Dry chemical, Water spray



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**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.

**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.

Keep away from heat and sources of ignition.

**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.

Keep away from direct sunlight. 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.

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

**General Protection**

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



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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**      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**

Imidacloprid	138261-41-3	OES BCS*		0.7 mg/m3
Metalaxyl	57837-19-1	TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
Tebuconazole	107534-96-3	OES BCS*		0.2 mg/m3
Glycerine	56-81-5	ACGIH	TWA	10 mg/m3
		OSHA Z1	PEL	5 mg/m3
		OSHA Z1	PEL	15 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		OSHA Z1A	TWA	10 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance**                    red
- Physical State**                liquid
- Odor**                              slight
- pH**                                 7.0 - 8.5 (100 %) (undiluted)
- Density**                         approx. 1.12 g/cm<sup>3</sup> at 20 °C
- Boiling Point**                 > 100 °C / > 212 °F
- Melting / Freezing Point**   -17.8 - -15 °C / -0.0 - 5 °F
- Water solubility**              miscible



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**Viscosity** 120 - 450 mPa.s

**SECTION 10. STABILITY AND REACTIVITY**

**Conditions to Avoid** Freezing

**Hazardous Reactions** Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredients, imidacloprid, metalaxyl and tebuconazole.

**Acute Oral Toxicity** rat: LD50: 2,990 mg/kg

**Acute Dermal Toxicity** rat: LD50: > 2,000 mg/kg

**Acute Inhalation Toxicity** rat: LC50: > 2.04 mg/l  
 Exposure time: 4 h  
 Determined in the form of liquid aerosol.  
 highest concentration tested  
 No deaths

rat: LC50: > 8.16 mg/l  
 Exposure time: 1 h  
 Determined in the form of liquid aerosol.  
 Extrapolated from the 4 hr LC50.

**Skin Irritation** rabbit: Slight irritation.

**Eye Irritation** rabbit: Minimally irritating.

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

**Chronic Toxicity** Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.

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

Tebuconazole caused liver, spleen, adrenal and/or eye effects at high doses in chronic studies in rats and dogs.

**Assessment Carcinogenicity**

Imidacloprid was not carcinogenic in studies in rats and mice.

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

Tebuconazole is classified by EPA as a Group C carcinogen (possible human carcinogen) based on liver



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tumors in mice and no evidence of carcinogenicity in rats. As the liver tumors were seen only at a dose exceeding a Maximum Tolerated Dose (MTD), no significant carcinogenic risk is posed for human exposure.

**ACGIH**

None.

**NTP**

None.

**IARC**

Attapulgate clay

12174-11-7

Overall evaluation: 2B

Attapulgate clay

12174-11-7

Overall evaluation: 3

**OSHA**

None.

**Reproductive & Developmental Toxicity**

**REPRODUCTION:**

Imidacloprid was not a reproductive toxicant in a multi-generation study in rats.

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

Tebuconazole is not considered a primary reproductive toxicant in rats. Reproductive effects (e.g., smaller litters) were observed at the highest concentration but were considered secondary to maternal toxicity.

**DEVELOPMENTAL TOXICITY:**

Imidacloprid is not considered a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses that caused maternal toxicity.

Metalaxyl is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.

Tebuconazole is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.

**Neurotoxicity**

Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.

Metalaxyl neurotoxicity studies are not required at this time.

Tebuconazole caused only transient neurobehavioral effects (e.g., decreased motor activity) in acute, subchronic and/or developmental neurotoxicity studies in rats.

**Mutagenicity**

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

Metalaxyl was not mutagenic or genotoxic based on the overall weight of



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evidence in a battery of in vitro and in vivo tests.

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

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

**Ecological Information** Exposed treated seed may be hazardous to birds.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance** Open dumping is prohibited. 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.

**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. Follow advice on product label and/or leaflet.

**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.** 264-971

**US Federal Regulations**

**TSCA list**

Glycerine 56-81-5

**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**



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None.

**US States Regulatory Reporting**

**CA Prop65**

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

Attapulgite 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**

Attapulgite clay	12174-11-7	CA
Glycerine	56-81-5	IL, MN, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

Glycerine 56-81-5

**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):

Health - 2      Flammability - 1      Reactivity - 0      Others - none

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

Reason to Revise: Updated Section 8: Exposure Controls / Personal Protection; Updated Section 11: Toxicological Information.

Revision Date: 02/25/2008

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