



# MATERIAL SAFETY DATA SHEET

## LATITUDE®

**Version:** 1.4  
**Date of Issue:** 09/19/2007  
**Date printed:** 09/20/2007

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product name :** LATITUDE®

**Chemical name:** Carboxin - Imidacloprid - Metalaxyl (Actives)

**Use of substance/preparation:** Seed Treatment Fungicide

**Supplier:** Chemtura Corporation  
199 Benson Road  
Middlebury, CT 06749 USA

**Emergency telephone number:** CHEMTREC (24 hours) 800-424-9300, 703-527-3887  
Chemtura Corporation Emergency Response (24 hours) 800-292-5898

**Environmental, Health and Safety Department:** 866-430-2775

**Prepared by** Product Safety Department      Date of Issue: 09/19/2007  
(US) +1 866-430-2775  
(EU) +44 (0) 1753.603.000  
Email: MSDSRequest@chemtura.com

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### 2. HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW**  
**CAUTION!**  
MAY BE HARMFUL IF SWALLOWED.  
MAY CAUSE MODERATE IRRITATION TO EYES.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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INGREDIENT	% BY WEIGHT
Imidacloprid CAS# 138261-41-3	25
Carboxin CAS# 5234-68-4	14
Metalaxyl CAS# 57837-19-1	1
Free Silica (Quartz) CAS# 14808-60-7	< 2



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Talc 30 - 40  
 CAS# 14807-96-6

Graphite 10 - 20  
 CAS# 7782-42-5

Ingredients not precisely identified are non-hazardous and/or proprietary.

### 4. FIRST AID MEASURES

#### Swallowing

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

#### Inhalation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

#### Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

#### Eye contact

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

#### Notes to physician

ROUTES OF ENTRY:

Inhalation

Skin

Eyes

Ingestion

Treat symptomatically.

Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE-FIGHTING MEASURES

#### NFPA CLASSIFICATION

<b>Health: 1</b>	<b>Flammability: 0</b>	<b>Reactivity: 0</b>	<b>Special provisions:</b>
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#### Hazardous combustion products

Hydrogen chloride.

Oxides of nitrogen.

Oxides of sulfur.

#### Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

#### Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.

Self-contained breathing apparatus.

#### Extinguishing media

Suitable:

Large fires:

- alcohol-type foam or universal-type foams

Small fires:

- CO2

- dry chemical

- water spray

Unsuitable:

- water jets



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### Unusual fire and explosion hazards

Following products may be produced during a fire:, Oxides of nitrogen., Oxides of sulfur.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions

Evacuate unnecessary personnel., Avoid all contact with material., Wear suitable protective equipment.

### Environmental precautions

Prevent from entering sewer system, surface water or soil.

### Methods for cleaning up

Sweep up and collect in a suitable container for disposal.  
Avoid dust formation.  
Observe government regulations.

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## 7. HANDLING AND STORAGE

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### HANDLING

#### Handling precautions

Wear recommended personal protection equipment., Warn personnel about the dangers of the product., Keep container tightly closed., Avoid dispersion of dust to reduce fire and explosion potential.

#### Other precautions

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

### STORAGE

#### Storage requirements

Store in a cool, dry place.

#### Further information on storage

Do not store near food, feed or fertilizers.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Free Silica (Quartz)		ACGIH - respirable dust	0.05 mg/m3	Toxicity to reproduction/fertility: CANCER HAZARD A2
Free Silica (Quartz)		OSHA - respirable dust	0.1 mg/m3	TWA
Free Silica (Quartz)		OSHA - total dust	0.3 mg/m3	TWA
Talc	USA	TWA, ACGIH	2 mg/m3	Respirable fraction Non-asbestos form; otherwise, use asbestos
Graphite	USA	TLV-TWA, ACGIH	2 mg/m3	respirable fraction, all forms except graphite fibers



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### PERSONAL PROTECTION

#### Respiratory protection

In the absence of engineering controls sufficient to maintain airborne concentrations below recommended occupational exposure limit values, appropriate respiratory protection should be utilized. The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation.

The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned.

For emergency conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus.

#### Hand protection / protective gloves

Chemical resistant protective gloves

#### Eye protection

Full face shield.

#### Skin protection

Chemical resistant protective clothing.

#### Industrial hygiene measures

Before eating, drinking or smoking, wash hands and face thoroughly with soap and water.

### ENGINEERING CONTROLS

#### Ventilation

Provide local exhaust or process enclosure ventilation system.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### APPEARANCE

Physical state	Powder
Color	Gray
Odor	Mild

#### OTHER PROPERTIES

Melting point	Not available
pH	Not available
Bulk density	25 - 35 lb/ft <sup>3</sup>
Vapor pressure	
Solubility in water	Insoluble
Flash point	Not available

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## 10. STABILITY AND REACTIVITY

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**Stability:** This product is stable under normal storage and handling conditions.



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**Incompatible materials:**

Oxidizing agents.  
Strong acids.  
Strong bases.

**Hazardous combustion products:**

Hydrogen chloride.  
Oxides of nitrogen.  
Oxides of sulfur.

**Hazardous polymerization:** Will not occur.

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### 11. TOXICOLOGICAL INFORMATION

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**SWALLOWING**

Test results

Acute toxicity: LD50 Rat  
Result: 500 - 5,000 mg/kg

**SKIN ABSORPTION**

Test results

Acute toxicity: LD50 - Rat  
Result: > 5,000 mg/kg

**INHALATION**

Test results

Acute toxicity: LC50 - Rat  
Result: > 8.24 mg/l  
Exposure time: 4 h

**SKIN CONTACT**

Test results

Skin irritation: Result: Minimal irritation

**EYE CONTACT**

Test results

Eye irritation: Result: Minimal irritation

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### 12. ECOLOGICAL INFORMATION

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Very toxic to aquatic organisms.

<u>Component ecotoxicology</u> Carboxin <u>Acute toxicity fish:</u>	LC50 - Rainbow trout (Oncorhynchus mykiss) Result: 2.3 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Carboxin <u>Acute toxicity fish:</u>	LC50 - Bluegill (Lepomis macrochirus) Result: 3.6 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Metalaxyl <u>Acute toxicity fish:</u>	LC50 - Rainbow trout (Oncorhynchus mykiss) Result: > 100 mg/l Exposure time: 96 h



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Component ecotoxicology Carboxin Aquatic toxicity to plants:	EC50 - Selenastrum capricornutum Result: 0.48 mg/l Exposure time: 120 h
Component ecotoxicology Metalaxyl Aquatic toxicity to plants:	IC50 - Green algae (Scenedesmus subspicatus) Result: 33 mg/l Exposure time: 5 d
Component ecotoxicology Carboxin Acute toxicity to aquatic invertebrates:	EC50 - Water flea (Daphnia magna) Result: > 57 mg/l Exposure time: 48 h
Component ecotoxicology Metalaxyl Acute toxicity to aquatic invertebrates:	EC50 - Result: > 28 mg/l Exposure time: 48 h

### 13. DISPOSAL CONSIDERATIONS

**General:** Dispose of in accordance with appropriate Federal, State, and local regulations., Do not discharge to sewers and natural waters.

### 14. TRANSPORT INFORMATION

#### DOT Classification

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

#### IMDG Classification

This product is not regulated by IMDG.

#### ICAO Classification

This product is not regulated by ICAO.

### 15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Carboxin	5234-68-4	14.00

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*



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**EPA Hazard Categories (SARA 311, 312):** Immediate Health Hazard, Delayed Health Hazard

### CHEMICAL INVENTORY

**United States:** This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from TSCA Inventory listing requirements.

## 16. OTHER INFORMATION

**RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS:** This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

### HMIS RATING

<b>Health: 1</b>	<b>Flammability: 0</b>	<b>Reactivity: 0</b>	<b>PPI: B</b>
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STP	Standard temperature and pressure
W/W	Weight/Weight 0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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