

WINFIELD SOLUTIONS, LLC

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

SECTION 1 - PRODUCT AND MANUFACTURER INFORMATION

| | |
|--|---|
| <p>TRADE NAMES AND SYNONYMS CONCUR™ (Concur is a trademark of Winfield Solutions LLC)</p> <p>CHEMICAL NAMES AND SYNONYMS Imidacloprid Metalaxyl</p> <p>CHEMICAL FAMILY Mixture</p> <p>FORMULA Mixture</p> <p>PRODUCT CODE 264-1044-1381</p> | <p>MANUFACTURER'S INFORMATION Winfield Solutions, LLC P.O. Box 64589 St. Paul, MN 55164-0589 800-328-9680</p> <p>EMERGENCY PHONE NUMBERS (972) 771-2741 [After Hours] (972) 542-1375 [After Hours]</p> <p>CHEMTREC PHONE NUMBER CHEMTREC: (800) 424-9300 (Toll free) (703) 527-3887 (US & International)</p> <p>PREPARED BY: Environmental, Health & Safety Issue Date: 12/13/07</p> |
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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 and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.*

SECTION 2 – COMPOSITION AND INGREDIENT INFORMATION

| CHEMICAL NAME (INGREDIENTS) | CAS NUMBER | HAZARD | % BY WEIGHT |
|---|-------------|----------------------------|-------------|
| 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine <i>(Imidacloprid)</i> | 138261-41-3 | Irritant | 25.0 |
| N-(2,6-dimethylphenyl)-N-(methoxyacetyl)alanine methyl ester <i>[Metalaxyl]</i> | 57837-19-1 | Irritant Moderate Toxic | 1.00 |
| Talc | 14807-96-6 | Irritant | * |
| Crystalline Silica | 14808-60-7 | Potential Carcinogen | <1.0 |
| *Diluent | * | Nuisance Dust | * |
| Graphite | 7782-42-5 | Irritant | * |
| *Binder | * | Irritant | * |

For EXPOSURE GUIDELINES, See page 3, section 8 of this MSDS

SECTION 3 - HAZARDS IDENTIFICATION

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EFFECTS OF OVEREXPOSURE

ACUTE (SHORT TERM EXPOSURE):

Harmful if swallowed. Causes moderate eye irritation. Inhalation may cause irritation of the nasal passages.

CHRONIC (LONG TERM EXPOSURE):

Long-term studies of Imidacloprid with rats, mice and dogs did not show carcinogenic effects. No teratogenic or reproductive effects were reported in studies with Imidacloprid. No mutagenic effects were reported with Imidacloprid. In lifetime feeding studies with high doses of Metalaxyl, experimental animals exhibited an increase in

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SECTION 3 - HAZARDS IDENTIFICATION - Continued

liver weights and circulating blood enzymes. No other target organs were affected. Talc (non-asbestiform) showed evidence of carcinogenicity in rats via inhalation, yet no evidence is found in mice. The finding has been reported as resulting from lung overburden caused by the very high exposure levels in the study. Chronic inhalation of Talc may cause scarring of the lungs (talcosis). Prolonged, repeated inhalation causes irritation of the respiratory tract and may cause disabling, progressive pulmonary fibrosis (silicosis) due to Crystalline silica. There is evidence of human carcinogenicity from long term exposure to Crystalline silica.

GENERAL PRECAUTIONS:

Always practice good industrial hygiene; handle with care; avoid personal contact. Do not get into eyes or on skin; do not breathe mist or vapor of product. Do not swallow. Wash hands with soap and water and rinse after handling product. Show after each shift. Wash all work clothing and completely clean all PPE (personal protective equipment) after each shift.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

Pre-existing lung disease may be aggravated.

| | | | |
|--------------------------------|-------------------|------------------|-------------------|
| PRIMARY ROUTE OF ENTRY: | INHALATION | INGESTION | ABSORPTION |
|--------------------------------|-------------------|------------------|-------------------|

SECTION 4 - FIRST AID INFORMATION

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

IF INHALED: Move person 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 Poison Control Center or doctor for further treatment advice.

IF SWALLOWED: 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 a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: (ANTIDOTE) N/E

SECTION 5 - FIRE FIGHTING MEASURES

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| | | | |
|--------------------|-------------------------|------------------------------------|------------------------------------|
| FLASH POINT | FLAMMABLE LIMITS | LOWER EXPLOSIVE LIMIT (LEL) | UPPER EXPLOSIVE LIMIT (UEL) |
| N/E | N/E | N/E | N/E |

EXTINGUISHING MEDIA:

FOAM CO₂ DRY CHEMICAL WATER SPRAY OTHER (SPECIFY):

SPECIAL FIRE FIGHTING PROCEDURES:

Wear NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

In fire situations, toxic and corrosive hydrogen chloride and oxides of nitrogen and oxides of sulfur, carbon monoxide, carbon dioxide can be released.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear a NIOSH approved dust respirator and all appropriate protective equipment. Sweep up spilled material to avoid dusting. Prevent materials from entering floor drains. Place in a suitable labeled container for disposal. Scrub contaminated area with water and detergent. Collect rinsate and place in a suitable labeled container for disposal.

REPORTABLE QUANTITY (RQ) UNDER CERCLA: N/A

SECTION 7 - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURES:

MAX N/E MIN N/E INDOOR OUTDOOR REFRIGERATED

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in area designated specifically for pesticides. Do not store near any material intended for use or consumption by humans or animals. Store in a cool place. Do not store in direct sunlight. Protect from freezing temperatures. Do not contaminate water, food, or feed by storage, disposal, or by cleaning of equipment. Do not reuse empty container. Open dumping is prohibited.

OTHER PRECAUTIONS: N/A

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust or general ventilation to maintain exposure below PEL.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Safety glasses.

HAND/SKIN PROTECTION: Rubber or plastic gloves and apron to prevent repeated exposures.

RESPIRATORY PROTECTION: Dust/mist filtering respirator or a NIOSH approved respirator with any N, R, P or HE filter if excessive dusting occurs.

WORK PRACTICES: Minimize exposure. Wear appropriate PPE to prevent the probability of exposure and personal contact. Wash with soap and rinse thoroughly after handling material and before eating, drinking, smoking or using restroom facilities. Shower after each shift. Deluge safety shower and eye wash should be located in work area.

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.*

EXPOSURE GUIDELINES

| CHEMICAL NAME | CAS NUMBER | OSHA Permissible Exposure Limit (PEL) | ACGIH Threshold Limit Value (TLV) |
|--------------------|-------------|---|---|
| Imidacloprid | 138261-41-3 | N/E | N/E |
| Metalaxyl | 57837-19-1 | N/E | N/E |
| Talc | 14807-96-6 | 2 mg/m ³ | 2 mg/m ³ |
| Crystalline silica | 14808-60-7 | 0.1 mg/m ³ | 0.05 mg/m ³ |
| *Diluent | * | 5 mg/m ³ (rf) 10 mg/m ³ (td) | 10 mg/m ³ (td) 3 mg/m ³ (rf) |
| Graphite | 7782-42-5 | 2.5 mg/m ³ | 2.0 mg/m ³ |
| *Binder | * | 5 mg/m ³ | 5 mg/m ³ 10 mg/m ³ (C) |

**Trade secret information available as provided in 29 CFR 1910.1200 (i) VALUES ARE 8-HR. TIME-WEIGHTED-AVERAGES UNLESS OTHERWISE SPECIFIED*

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------|--------------------------|---------------------------------|-----------|
| APPEARANCE: | Powder | pH (AS IS): | N/E |
| BOILING POINT (°F): | N/E | SOLUBILITY (WATER): | Insoluble |
| BULK DENSITY: | 25.0 – 35.0 lbs./cu. ft. | SPECIFIC GRAVITY: | N/E |
| COLOR: | Gray | VAPOR DENSITY (Air = 1): | N/E |
| EVAP. RATE (BuAc=01): | N/E | VAPOR PRESSURE (mmHg): | N/E |
| FREEZING POINT (°F): | N/E | VISCOSITY: | N/E |
| ODOR: | Mild | % VOLATILE BY VOLUME: | N/E |

SECTION 10 - STABILITY AND REACTIVITY INFORMATION

| | |
|--|--|
| CONDITIONS TO AVOID: | N/E |
| INCOMPATIBILITY (MATERIALS TO AVOID): | N/E |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Hydrogen chloride, oxides of nitrogen, oxides of sulfur. |
| STABILITY: | <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE |
| HAZARDOUS POLYMERIZATION: | <input type="checkbox"/> WILL OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR |

SECTION 11 - TOXICITY INFORMATION

| | | |
|---|---|--|
| ORAL LD₅₀ Rat = >500 and <5000 mg/kg | DERMAL LD₅₀ Rabbit = >5000 mg/kg | INHALATION LC₅₀ Rat = >8.24 mg/L/4 hrs. |
| EFFECTS TO EYES: Minimally irritating. | | |
| EFFECTS TO SKIN: Minimally irritating. | | |

CARCINOGENICITY REFERENCE SOURCES:

| | | |
|--|--|--|
| I.A.R.C. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | N.T.P. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | O.S.H.A. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|--|--|--|

Crystalline silica (CAS#14808-60-7) - <1% of this product is considered a group 1 carcinogen by IARC which indicates that there is evidence of carcinogenicity in humans. NTP considers it a Group 1 substance for which there is sufficient evidence of carcinogenicity from studies in humans to indicate a causal relationship between the agent and human cancer.

SECTION 12 - ECOLOGICAL INFORMATION

This product is highly toxic to birds and aquatic invertebrates and toxic to fish. For terrestrial use, do not apply directly to water, or to area where surface water is present or to intertidal areas below the mean high water mark. Exposed treated seeds may be hazardous to birds. In the event that treated seeds are spilled and cannot be salvaged, completely cover them with soil. Do not contaminate water when disposing of equipment washwaters or rinsate.

SECTION 13 - DISPOSAL CONSIDERATIONS

RCRA – FEDERAL HAZARDOUS WASTE INFORMATION: N/A*
* See 40 CFR Part 261 and contact your local regulatory agency for additional information and requirements.

PESTICIDE DISPOSAL: Dispose of waste at an approved disposal facility.

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SECTION 13 - DISPOSAL CONSIDERATIONS - Continued

CONTAINER DISPOSAL:

Completely empty container into application equipment. This dispose of empty container in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14 - TRANSPORT INFORMATION

REGULATED BY: Domestic Road/Rail (DOT)
 Export Water (IMO)
 Air (ICAO/IATA)
 Not regulated as a hazardous material by any mode of transportation.

DOMESTIC ROAD/RAIL (DOT)

For Package Sizes: Not regulated. [If shipped non-bulk in US over highway.]
Proper Shipping Name: N/A (not regulated).
ERG Number: 171
Placard (>1001 lbs.): N/A
Other Information: N/A

Marine Pollutant? Yes No **Chemical (s):** NA

EXPORT WATER (IMO) *Contact Winfield Solutions, LLC Environmental Health & Safety for additional information.*

AIR (ICAO/IATA) *Contact Winfield Solutions, LLC Environmental Health & Safety for additional information.*

FREIGHT TARIFF DESCRIPTION

Rate As: Insecticide/Fungicide, Agriculture, N.O.I., Solid

SECTION 15 - REGULATORY INFORMATION

SARA HAZARD CATEGORY This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendments and Reauthorization Act Of 1986 (Sara Title III) and is considered, under applicable definitions, to meet the following categories:

CERCLA/SARA: Immediate (acute), delayed (chronic)
TPQ: N/A
RQ: N/A

SARA 313 INFORMATION This product contains the following substances subject to the reprint requirements of SARA Title III, Section 313 and 40 CFR Part 372:

| <u>CHEMICAL NAME</u> | <u>CAS NUMBER</u> | <u>CONCENTRATION</u> |
|----------------------|-------------------|----------------------|
| N/A | N/A | N/A |

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SECTION 15 - REGULATORY INFORMATION - Continued

STATES RIGHT-TO-KNOW LISTS

| CHEMICAL & CAS # | CA (Prop. 65) | DE (Air Qual. Mgmt.) | FL (Toxic Subs.) | MA (Haz. Subs.) | MI (Critical Materials) | MN (Haz. Subs.) | NJ (RTK Haz. Subs.) | NY (Haz. Subs.) | PA (Haz. Subs.) | WA (PEL for Air) |
|---|---------------------|----------------------------|------------------------|-----------------------|-------------------------------|-----------------------|---------------------------|-----------------------|-----------------------|------------------------|
| Graphite (CAS #7782-42-5) | | | X | X | | X | | | X | X |
| Crystalline Silica (CAS #14808-60-7) | | | X | X | | X | | | X | X |
| Talc (CAS #14807-96-6) | | | X | X | | X | | | X | X |
| *Diluent | | | X | X | | X | | | X | X |

* Contact Winfield Solutions, LLC EHS Department if more information is needed.

THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS ON THE CLEAN AIR ACT (CAA) LIST OF HAZARDOUS AIR POLLUTANTS (HAP's):

N/A

THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS ON RCRA P OR U LISTS OF FEDERAL HAZARDOUS WASTE: N/A*

*See 40 CFR Part 261 and contact your local regulatory agency for additional information.

SECTION 16 - OTHER INFORMATION

| HMIS RATINGS | | NFPA RATING | |
|---------------------------|---|-----------------------|-----|
| HEALTH | 1 | HEALTH | 1 |
| FLAMMABILITY | 0 | FLAMMABILITY | 0 |
| REACTIVITY | 0 | REACTIVITY | 0 |
| PERSONAL PROTECTION | B | SPECIFIC HAZARD | N/A |

ABBREVIATION KEY

| | | |
|-----------------------|--------------------------|----------------------------------|
| N/A = Not Applicable | C = Ceiling Limit | STEL = Short Term Exposure Limit |
| N/D = Not Determined | rf = Respirable Fraction | SKIN = Skin Notation |
| N/E = Not Established | td = Total Dust | |

REFERENCES

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