

Alpine® WSG

Water Soluble Granule Insecticide

KILLS: Ants (including Argentine, Carpenter, Harvester, Odorous House, Red Imported and Southern Fire; excluding Pharaoh), Asian Lady Beetles, Bean Plataspid (= Kudzu Bug), Bed Bugs, Brown Marmorated Stink Bugs, Centipedes, Collembola, Crickets, Earwigs, Fleas, German Cockroaches, House Flies, Millipedes, Mosquitoes (*Anopheles*), Paper Wasps, Pillbugs, Sowbugs, Spiders (excluding Brown Recluse) and Yellowjackets

FOR USE IN AND AROUND: Apartments; Campgrounds; Cemeteries; Clinics; Dog Kennels; Food Handling Establishments; Green Belts; Homes; Hospitals; Hotels; Mausoleums; Mobile Homes; Motels; Resorts; Schools; Storage Buildings; Trailers; Transportation Equipment (Autos, Buses, Boats, Ships, Trains, Trucks, Planes (cargo areas only)); Utilities; Warehouses; Commercial, Industrial and Residential Buildings; Theme Parks; Parks & Recreational Areas; and Zoos

ACTIVE INGREDIENT:

Dinotefuran: N-methyl-N-[(tetrahydro-3-furanyl)methyl]guanidine 40.0%

OTHER INGREDIENTS: 60.0%

TOTAL: 100.0%

EPA Reg. No. 499-561

KEEP OUT OF REACH OF CHILDREN

CAUTION

Product of Japan.

FIRST AID

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15 – 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-832-HELP, 7 days/week; 24 hr/day, for emergency medical treatment information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks and shoes, and chemical-resistant gloves (made out of any waterproof material, such as Natural Rubber, selection Category A).

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not dispose equipment washwaters or rinsate into a natural drain or water body.

This product is toxic to honey bees. The persistence of residues and potential residual toxicity of Dinotefuran in nectar and pollen suggests the possibility of chronic toxic risk to honey bee larvae and the eventual instability of the hive.

- This product is toxic to bees exposed to residues for more than 38 hr following treatment.
- Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may for-


age on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

Dinotefuran and its degradate, MNG, have the properties and characteristics associated with chemicals detected in groundwater. The high water solubility of Dinotefuran, and its degradate, MNG, coupled with its very high mobility, and resistance to biodegradation indicates that this compound has a strong potential to leach to the subsurface, under certain conditions, as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging in the treatment area.

PROTECTION OF POLLINATORS

**APPLICATION RESTRICTIONS
EXIST FOR THIS PRODUCT
BECAUSE OF RISK TO BEES
AND OTHER INSECT POLLINA-
TORS. FOLLOW APPLICATION
RESTRICTIONS FOUND IN THE
DIRECTIONS FOR USE TO PRO-
TECT POLLINATORS.**

Look for the bee hazard icon  in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications.
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: <http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>. Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

PHYSICAL AND CHEMICAL HAZARDS

Do not apply water-based sprays of this product to conduits, motor housing, junction and switch boxes or other electrical equipment because of possible shock hazard. Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.

DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW
TO USE THIS PRODUCT IN A MANNER
INCONSISTENT WITH ITS LABELING.**

Do not apply this product while bees are foraging. Do not apply this product to plants that are flowering. Only apply after all flower petals have fallen off.

USE RESTRICTIONS:

- Do not apply within aircraft cabins.
- Do not use in outdoor residential misting systems.
- Do not apply to humans or their clothing. Do not allow children or pets to contact treated surfaces until spray has dried.
- Do not apply to household pets. Cover fish tanks prior to application near tanks.
- Do not apply this product in patient rooms while occupied.
- Do not apply to classrooms when in use.
- Do not apply in food/feed areas of food handling establishments. When applying in residential or commercial structures, do not contaminate food, feed stuffs or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes or food/feed storage containers. Cover any food/feed contact surfaces and cooking utensils, in the treatment area, before treatment or thoroughly clean after treatment and before using.
- Apply to the point just prior to run-off. Do not allow application to drip or run-off from surfaces.

PRODUCT INFORMATION

This product is a water-soluble granule containing the non-repellent active ingredient, dinotefuran. Apply indoors and/or outdoors via Crack & Crevice, spot or surface application for the listed pests and use sites.

NOTE: This specimen label is for informational purposes only. All uses may not be approved in all states. See labeling which accompanied product for Directions for Use or call 800-777-8570 for more information.

Alpine® WSG Water Soluble Granule Insecticide

MIXING INSTRUCTIONS

Thoroughly clean spray equipment before mixing and application of this product.

0.35 oz (10 g) Packet: Add approximately 1/2 of the water to the spray tank. Tear open the packet and add contents to water, then complete the filling of the spray tank. Agitate the tank until the product is completely dissolved. Reagitate finished dilution if application is interrupted for an extended period of time or if dilution is left in tank overnight.

1 lb, 1.64 oz (500 g) Resealable plastic bottle: Add approximately 1/2 of the water to the spray tank. Add 10 - 30g of product to water per 1,000 ft² area being treated (1T = 10g), then complete the filling of the spray tank. Agitate the tank until the product is completely dissolved. Reagitate finished dilution if application is interrupted for an extended period of time or if dilution is left in tank overnight.

SPRAY DILUTION CHART

Desired Finished Dilution Concentration	Amount of product to make 1 gal of finished dilution to treat up to 1,000 ft ²	Amount of product to make 5 gal of finished dilution to treat up to 5,000 ft ²	Amount of product to make 25 gal of finished dilution to treat up to 25,000 ft ²	Amount of product to make 50 gal of finished dilution to treat up to 50,000 ft ²
0.1%	10g	50g	250g	500g
0.2%	20g	100g	500g	1,000g
0.3%	30g	150g	750g	1,500g

Refer to specific pest categories below for the proper use rate. One gallon of finished dilution treats 1,000 ft². Depending on the surface, more or less water may be used to properly treat areas with different application apparatus, but the proper amount of active ingredient should be used per square footage.

Tank Mixing: This product may be tank mixed with other water based insecticides including, but not limited to, insect growth regulators (IGR), quick knockdown products and residuals. Before mixing test to see if products are compatible. When tank mixing, follow the more restrictive label use directions of the mixed products.

VOID/CRACK & CREVICE® APPLICATION

Apply into cracks, crevices and voids with equipment designed for such applications. Follow the manufacturer's recommendations for proper equipment set-up and operating pressures. Place the tip of the applicator at or into the crack, crevice or void to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push the finished dilution into voids and/or cracks and crevices. Apply in such a manner to avoid dripping and runoff.

INDOOR APPLICATIONS

Dilute to the proper concentration according to targeted pest infestation. Follow the mixing directions found in the dilution chart. Use 1 fl oz of finished dilution per 7 - 10 ft².

Crawling Insects/Pests [Including: German Cockroaches, Pillbugs, Crickets, Millipedes and Spiders (excluding: Brown Recluse)] (30g/gal): Make spot and/or Crack & Crevice applications into hiding places and entry points such as cracks and crevices, void areas, moist areas, openings around pipes and sinks, under refrigerators or vending machines, interiorscapes, across lower doorway frame and window openings.

House Flies (20g/gal): Make spot applications on surfaces where flies frequently roost such as door and window frames, screens, trash cans, plants, interiorscapes, ceilings and upper wall surfaces.

Bed Bugs (30g/gal): Make spot and/or Crack & Crevice and/or void applications where evidence of bed bug infestation occurs or bed bugs are suspected, such as bed frames; box springs; inside empty dressers, clothes closets and luggage; carpets; draperies; furniture; headboards; high and low wall moldings and wallpaper edges. Do not apply to mattresses.

Ants [excluding Pharaoh] (10g/gal): Make spot, Crack & Crevice and/or void applications where ants may be foraging and/or nesting, such as, around doors, window frames, under sinks, around pipes and in pipe voids, attic venting and other areas where ants may find access or nest.

Fleas (10g/gal): Apply to infested areas or potentially infested areas, such as rugs, floors, carpets, upholstered furniture, pet beds and pet resting areas. When applying to upholstered furniture, treat under cushions and areas where flea development can occur. Do not treat pets with this product.

INDOOR AND OUTDOOR APPLICATIONS

Asian Lady Beetles, Brown Marmorated Stink Bugs, Bean Plataspid (= Kudzu Bugs) and Centipedes (30g/gal): Make spot, Crack & Crevice and/or void applications where these pests may harbor or hibernate, such as cracks and crevices, in weep holes, wall voids, around window and door frames, attics and behind siding. Apply to exterior wall surfaces around entry points and resting areas where insects congregate.

Carpenter Ants (20g/gal): Make spot, Crack & Crevice and/or void applications to any trails, inside or outside, around doors and windows and other places where ants may enter premises (such as attics, attic venting, crawl spaces, ceilings, fences, exterior building surfaces, landscape timbers, garages, hollow doors, soffits, wall voids, weep holes and other void areas). Where possible, directly apply to ant nests or infested wood or trees.

Paper Wasps and Yellowjackets (30g/gal): To treat a yellowjacket or wasp nest, apply liberally to the nest and the surrounding area. For nests inside wall voids, inject an amount sufficient to treat the entire nest. Most applications should require about 0.5 gal of diluted material. Pay attention to surfaces or items that the product may contact (i.e. electrical wiring). Do not use where there is an electrical shock hazard.

THIS PRODUCT DOES NOT PROVIDE INSTANT KNOCK-DOWN.

OUTDOOR APPLICATIONS

Do not apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.

Exterior Structural and Surrounding Area Applications for Crawling Insects/Pests [including: Collembola, Crickets, Earwigs, Millipedes, Pillbugs, Sowbugs and Spiders (excluding Brown Recluse)] (30g/gal): Directly contacting pests, apply where pests rest, trail and harbor, such as structural and other voids [including voids associated with and around doors, windows, utility entry points, behind siding, weep holes and tree hollows], eaves of structures, around lights or other insect attractant areas, foliage, bushes, landscape materials, garbage receptacles, under trees and other shaded areas.

House Flies (20g/gal): Apply to outside surfaces of screens, doors, window frames, porches, in garages, on foliage or wherever flies enter or congregate around or on the building, directly contacting flies. Apply to inside and outside surfaces of dumpsters, other trash holding containers and surrounding surfaces, directly contacting flies. Begin applications at the start of fly season and repeat during periods of heavy fly activity.

Fleas (10g/gal): Apply to yards, porches, patios or other areas of habitation for fleas, especially areas that pets frequent, directly contacting fleas. Pay particular attention to shaded areas with low protective covering such as under bushes, under decks, lawn furniture, lawn ornaments and other landscape materials. Apply to pet entry areas such as steps and stoops and other areas where pets rest or sit for extended periods of time, directly contacting fleas.

Ants [excluding Pharaoh] (10g/gal): Make spot and/or Crack & Crevice applications to any foraging trails, nests or mounds where ants are present. Make spot and/or Crack & Crevice applications to exterior areas where ants may enter a structure. Where possible, directly apply to ant nests or infested wood or trees. Curative broadcast applications can be made to yards, lawns, fields, parks, cemeteries, landscaping and structures. To help prevent infestations, make exterior structural and surrounding area applications according to this label.

Mosquitoes (Anopheles) (20g/gal): Apply using hand-held, back-pack or truck mounted sprayers only. Not for use with truck mounted or handheld cold aerosol ULV sprayers, or thermal fogging devices. Do not apply by aircraft. Use up to 50 gal of diluted spray per 50,000 ft². Apply to shrubbery, vegetation and other areas where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated if applied as a wet spray. Direct application of this product to any body of water is prohibited.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry area away from heat or open flame.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: [single-use packets] Nonrefillable container. Do not reuse or refill this container. Offer empty packet for recycling, if available, or dispose of in the trash or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. **[resealable plastic bottle]:** Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONDITIONS OF SALE AND WARRANTY

Follow the **Directions for Use**. It is impossible to eliminate all risks inherently associated with use of this product, and therefore all such risk shall be assumed by the Buyer. Whitmire warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use**, subject to the inherent risks, referred to above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) WHITMIRE MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND WHITMIRE'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) WHITMIRE AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. Whitmire and the Seller offer this product, and the Buyer accepts it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of Whitmire.

Manufactured for:
Whitmire Micro-Gen Research Laboratories, Inc.®
3568 Tree Court Industrial Blvd.
St. Louis MO 63122-6682
Questions? Call 1-800-777-8570
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Research Laboratories, Inc.®



The Chemical Company

Safety Data Sheet

ALPINE WSG

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1. Product and Company Identification

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Registrant:
Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122

Substance number: 000000552911
Synonyms: Dinotefuran

2. Hazards Identification

Emergency overview

CAUTION:
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
Causes eye irritation.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.

See Product Label for additional precautionary statements.

State of matter: solid
Colour: white
Odour: odourless

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
Relatively nontoxic after single ingestion. Relatively nontoxic after short-term inhalation. Relatively nontoxic after short-term skin contact.

Irritation / corrosion:
May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

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Sensitization:

There is no evidence of a skin-sensitizing potential.

Chronic toxicity:

Repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

Medical conditions aggravated by overexposure:

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is not acutely harmful to aquatic invertebrates. There is a high probability that the product is not acutely harmful to aquatic plants.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
165252-70-0	40.0 %	Dinotefuran
	60.0 %	Proprietary ingredients

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink plenty of water.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Flash point:

not applicable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

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Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Flammability: not highly flammable

Self-ignition temperature: not determined

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
water jet, carbon dioxide

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, nitrogen oxides, acid halides
The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. Accidental release measures

Personal precautions:
Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

Environmental precautions:
Do not discharge into the subsoll/soil. Do not discharge into drains/surface waters/groundwater.

Cleanup:
Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Avoid raising dust.
For small amounts: Contain with dust binding material and dispose of.
For large amounts: Sweep/shovel up.

7. Handling and Storage

Handling

General advice:
RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid dust formation. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:
The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat.

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Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

General advice:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

Temperature tolerance

Protect from temperatures below: -20 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 60 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls and Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off

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immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	free flowing fine granules	
Odour:	odourless	
Colour:	white	
pH value:	approx. 6 - 8	(approx. 23 °C)
Melting temperature:		not determined
Boiling point:		not determined
Vapour pressure:		not applicable
Density:	approx. 1.4 g/cm ³	(20 °C) The statements are based on the properties of the individual components.
Relative density:	1.33	(20 °C) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Bulk density:	approx. 0.405 - 0.495 kg/l 4.2645 Lb/USg	
Vapour density:		not determined
Viscosity, dynamic:		not applicable
Solubility in water:		not applicable

10. Stability and Reactivity

Dust explosivity characteristics:

Kst: 74 m.bar/s

Minimum ignition energy:

> 100 mJ, 7.1 bar

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

Substances to avoid:

strong oxidizing agents, strong acids, strong bases

Hazardous reactions:

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

Oxidizing properties:

not fire-propagating

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11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50
Species: rat (female)
Value: > 5,000 mg/kg

Inhalation:

Type of value: LC50
Species: rat (male/female)
Value: > 2.07 mg/l
Exposure time: 4 h

Dermal:

Type of value: LD50
Species: rat (male/female)
Value: > 5,000 mg/kg

Irritation / corrosion:

Skin:

Information on: Dinotefuran
Species: rabbit
Result: Slightly irritating.

Eye:

Information on: Dinotefuran
Species: rabbit
Result: Slightly irritating.

Sensitization:

Buehler test
Species: guinea pig
Result: Skin sensitizing effects were not observed in animal studies.

Genetic toxicity

Information on: Dinotefuran
Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Information on: Dinotefuran
No data available concerning carcinogenic effects.

Reproductive toxicity

Information on: Dinotefuran
No data available.

Development:

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Information on: Dinotefuran
No data available.

Other Information:

Misuse can be harmful to health.

12. Ecological Information

Fish

Information on: Dinotefuran
Acute:
Oncorhynchus mykiss/LC50 (96 h): > 100 mg/l
Cyprinus carpio/LC50 (96 h): > 100 mg/l

Aquatic invertebrates

Information on: Dinotefuran
Acute:
Daphnia magna/EC50 (48 h): > 1,000 mg/l
shrimp/LC50 (96 h): 0.79 mg/l

Aquatic plants

Information on: Dinotefuran
Toxicity to aquatic plants:
green algae/EC50 (72 h): > 100 mg/l

Non-Mammals

Other terrestrial non-mammals:
Honey bee/LD50: 0,022 µg/bee
The product has not been tested. The statement has been derived from the properties of the individual components.

Environmental mobility:

Information on: Dinotefuran
Assessment transport between environmental compartments:
Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Other adverse effects:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA:

The waste codes are manufacturer's recommendations based on the designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assignments. This product is not regulated by RCRA.

14. Transport Information

Land transport USDOT

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains DINOTEFURAN)

Air transport IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains DINOTEFURAN)

15. Regulatory Information

Federal Regulations

Registration status:

Crop Protection TSCA, US released / exempt

OSHA hazard category: No data available.;

EPCRA 311/312 (Hazard categories): Not hazardous;

State regulations

CA Prop. 65:

CA PROP 65: An assessment has determined that there is no significant risk present.

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16. Other Information

Refer to product label for EPA registration number.

Recommended use: insecticide

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

SDS Prepared by:
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SDS Prepared on: 2013/05/21

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