

Annual Integrated Pest Management Notice For School Year 2025 - 2026

Dear Parent, Guardian, or Staff Member:

This notice is being distributed to comply with the New Jersey School Integrated Pest Management Act. Union County Educational Services Commission has adopted an Integrated Pest Management (IPM) Policy and has implemented an IPM Plan to comply with this law. IPM is a holistic, preventive approach to managing pests that is explained further in the school's IPM Policy included with this notice.

All schools in New Jersey are required to have an Integrated Pest Management Coordinator (IPM Coordinator) to oversee all activities related to IPM and pesticide use at the school.

The IPM Coordinator for [insert name of school] is:

Name of IPM Coordinator: Eric Larson

Business Phone number: 908-233-9317 ext. 1009

Business Address: 45 Cardinal Drive, Westfield, NJ 07090

The IPM Coordinator maintains the pesticide product label, and the Material Safety Data Sheet (MSDS) (when one is available), of each pesticide product that may be used on school property. The label and the MSDS are available for review by a parent, guardian, staff member, or student attending the school. Also, the IPM Coordinator is available to parents, guardians, and staff members for information and to discuss comments about IPM activities and pesticide use at the school.

As part of a school pest management plan Union County Educational Services Commission may use pesticides to control pests. The United States Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (DEP) register pesticides to determine that the use of a pesticide in accordance with instructions printed on the label does not pose an unreasonable risk to human health and the environment. Nevertheless, the EPA and the DEP cannot guarantee that registered pesticides do not pose any risk to human health, thus unnecessary exposure to pesticides should be avoided. The EPA has issued the statement that where possible, persons who are potentially sensitive, such as pregnant women, infants and children, should avoid unnecessary pesticide exposure.

The following items must be included with this annual notice:

- A copy of the school or school district's IPM policy.
- The date, time and place of any meeting if one is to be held for the purpose of adopting or modifying the school integrated pest management policy or plan.
- A list of pesticides that are in use or that have been used in the past 12 months on school property.

POLICY

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

7422/page 1 of 3
School Integrated Pest Management Plan
M

7422 SCHOOL INTEGRATED PEST MANAGEMENT PLAN

The New Jersey School Integrated Pest Management Act of 2002 requires school districts to implement a school integrated pest management policy that includes an Integrated Pest Management Plan. In accordance with the requirements of the Act, the Board shall ensure implementation of Integrated Pest Management (IPM) procedures to control pests and minimize exposure of children, faculty, and staff to pesticides. These procedures shall be applicable to all school property of the Union County Educational Services Commission.

IPM Coordinator (IPMC)

The School Business Administrator shall be designated as the district's Integrated Pest Management Coordinator (IPMC) and is responsible for the implementation of the school integrated pest management policy.

Integrated Pest Management Procedures in Schools

Implementation of Integrated Pest Management (IPM) procedures will determine when to control pests and whether to use mechanical, physical, cultural, biological, or chemical methods. Applying IPM principles prevents unacceptable levels of pest damage by the most economical means and with the least possible hazard to people, property, and the environment.

The Integrated Pest Management Coordinator (IPMC) shall consider the full range of management options, including no action at all. Non-pesticide pest management methods are to be used whenever possible. The choice of using a pesticide shall be based on a review of all other available options and a determination that these options are not effective or not reasonable. When it is determined that a pesticide must be used, low impact pesticides and methods are preferred and shall be considered for use first.

Development of IPM plans

The Superintendent, in collaboration with the school Building Principal(s) and the IPMC, shall be responsible for the development of the IPM Plan for the Commission. The Commission's Integrated Pest Management (IPM) Plan is a blueprint of how the Commission will manage pests through IPM methods. The Commission's IPM Plan will state the Commission's goals regarding the management of pests and the use of pesticides for all Commission property. The Plan will reflect the Commission's site-specific needs and a description of how each component of the school district's Integrated Pest Management Policy and Regulation will be implemented for all school property.

POLICY

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

7422/page 2 of 3
School Integrated Pest Management Plan
M

Education/Training

The school community will be educated about potential pest problems and IPM methods used to achieve the pest management objectives.

The IPMC, other school staff, and pesticide applicators involved with implementation of the Commission's IPM policy will be trained in appropriate components of IPM as it pertains to the school environment.

Students and parents/legal guardians will be provided information on this policy and instructed on how they can contribute to the success of the IPM program.

Recordkeeping

Records of pesticide use shall be maintained on site to meet the requirements of the State regulatory agency and the Board.

Records shall also include, but are not limited to, pest surveillance data sheets and other non-pesticide pest management methods and practices utilized.

Notification/Posting

The Building Principal of each school, working with the IPMC, is responsible for timely notification to students, parents or legal guardians and the school staff of pesticide treatments pursuant to the School Integrated Pest Management Act.

Re-entry

Re-entry to a pesticide treated area shall conform to the requirements of the School Integrated Pest Management Act.

Pesticide Applicators

The IPMC shall ensure that applicators follow State regulations, including licensing requirements and label precautions, and must comply with all components of the School Integrated Pest Management Policy.

POLICY

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

7422/page 3 of 3
School Integrated Pest Management Plan
M

Evaluation

The Superintendent will report annually to the Board on the effectiveness of the IPM Plan and make recommendations for improvement as needed.

The Commission's Integrated Pest Management Plan, Policy and Regulation shall be implemented not later than June 12, 2004. The Board directs the Superintendent to develop Regulations/Procedures for the implementation of School Integrated Pest Management Plan.

N.J.S.A. 13:1F-19 through 13:1F-33

Adopted: December 3, 2003

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 1 of 8
School Integrated Pest Management Plan
M

R 7422 SCHOOL INTEGRATED PEST MANAGEMENT PLAN

A. Definitions

1. "Commissioner" means the Commissioner of Environmental Protection.
2. "Department" means the Department of Environmental Protection.
3. "Integrated Pest Management Coordinator" or "coordinator" means an individual who is knowledgeable about integrated pest management systems and has been designated by the Board, as the Integrated Pest Management Coordinator (IPMC) pursuant to the New Jersey School Integrated Pest Management Act. The IPMC is authorized to perform the statutory IPM responsibilities of the Board of Directors.
4. "Low Impact Pesticide" means any pesticide or pesticidal active ingredient alone, or in combination with inert ingredients, that the United States Environmental Protection Agency has determined is not of a character necessary to be regulated pursuant to the "Federal Insecticide, Fungicide, and Rodenticide Act," 7 U.S.C. s.136 et seq. and that has been exempted from the registration and reporting requirements adopted pursuant to that act; any gel; paste; bait; antimicrobial agent such as a disinfectant used as a cleaning product; boric acid; disodium octoborate tetrahydrate; silica gels; diatomaceous earth; microbe-based insecticides such as bacillus thuringiensis; botanical insecticides, not including synthetic pyrethroids, without toxic synergists; and biological, living control agents.
5. "Pesticide" means any substance or mixture of substances labeled, designed, intended for or capable of use in preventing, destroying, repelling, sterilizing or mitigating any insects, rodents, nematodes, predatory animals, fungi, weeds and other forms of plant or animal life or viruses, except viruses on or in living man or other animals. "Pesticide" shall also include any substance or mixture of substances labeled, designed or intended for use as a defoliant, desiccant or plant regulator.
6. "Plan" means the Commission's goals regarding the management of pests and the use of pesticides on all school property. The plan shall be developed in accordance with the requirements of N.J.S.A. 13:1f-19 through 33.
7. "School" means any public or private school as defined in N.J.S.A. 18A:1-1.
8. "School Integrated Pest Management Policy" means a managed pest control policy that eliminates or mitigates economic, health, and aesthetic damage caused by pests

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 2 of 8
School Integrated Pest Management Plan
M

in schools; that delivers effective pest management, reduces the volume of pesticides used to minimize the potential hazards posed by pesticides to human health and the environment in schools; that uses integrated methods, site or pest inspections, pest population monitoring, an evaluation of the need for pest control, and one or more pest control methods, including sanitation, structural repair, mechanical and biological controls, other non-chemical methods, and when non-chemical options are ineffective or unreasonable, allows the use of a pesticide, with a preference toward first considering the use of a low impact pesticide for schools.

9. "School pest emergency" means an urgent need to mitigate or eliminate a pest that threatens the health or safety of a student or staff member.
10. "School property" means any area inside and outside of the school buildings controlled, managed, or owned by the Commission.
11. "Staff member" means an employee of the Commission, including administrators, teachers, and other persons regularly employed by the Commission, but shall not include an employee hired by the Commission or the State to apply a pesticide or a person assisting in the application of a pesticide.
12. "Universal notification" means notice provided by the school district to all parents or legal guardians of children attending a school, and staff members of the Commission.

B. Integrated Pest Management Coordinator (IPMC)

The School Business Administrator shall be designated the Integrated Pest Management Coordinator (IPMC) of the Commission. The Integrated Pest Management Coordinator (IPMC) shall:

1. Maintain information about individual schools, the Commission's Integrated Pest Management Policy, and about pesticide applications on the school property of the schools under the Commission;
2. Act as a contact for inquiries about the School Integrated Pest Management Policy; and
3. Maintain material safety data sheets, when available, and labels for all pesticides that are used on the school property or in the schools under the Commission.

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 3 of 8
School Integrated Pest Management Plan
M

C. Maintenance of Records of Pesticide Application; Notices of Policy

The IPMC shall request from the pesticide applicator and shall maintain records of pesticide applications used on school property or for each school under the Commission for three years after the application, and for five years after the application of a pesticide designed to control termites, and on request, shall make the data available to the public for review.

A notice of the Commission's Integrated Pest Management Policy shall be included in school calendars or another form of universal notification to pupils and parent(s) or legal guardian(s). The notice shall include:

1. The Commission's Integrated Pest Management Policy;
2. A list of any pesticide that is in use or that has been used in the last twelve months on the Commission's property at each school location;
3. The name, address, and telephone number of the Integrated Pest Management Coordinator of (IPMC) of the school district;
4. A statement that:
 - a. The IPMC maintains the product label and material safety data sheet, when available, of each pesticide that may be used on school property;
 - b. The label and data sheet is available for review by a parent, legal guardian, staff member, or student attending the school; and
 - c. The Integrated Pest Management Coordinator (IPMC) is available to parents, legal guardians, and staff members for information and comment.
5. The time and place of any Board meetings that will be held to adopt the School Integrated Pest Management Policy; and
6. The following statement:

"As part of a school pest management plan, the Commission may use pesticides to control pests. The United States Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (DEP) register pesticides to determine that the use of a pesticide in accordance with instructions printed on the label does not pose an unreasonable risk to human health and the environment.

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 4 of 8
School Integrated Pest Management Plan
M

Nevertheless, the EPA and DEP cannot guarantee that registered pesticides do not pose any risk to human health, thus unnecessary exposure to pesticides should be avoided. The EPA has issued the statement that where possible, persons who are potentially sensitive, such as pregnant women, infants and children, should avoid unnecessary pesticide exposure.”

After the beginning of each school year, the IPMC, in conjunction with the Building Principal(s), shall provide this notice to each new staff member who is employed during the school year and to the parent(s) or legal guardian(s) of each new student enrolled during the school year.

D. Permitted Use of Certain Pesticides; Notice

If it is determined that a pesticide, other than a low impact pesticide, must be used on school property, the pesticide may be used only in accordance with the requirements of N.J.S.A. 13:1F-25.

- 1 The Principal, upon prior notice from the IPMC, shall provide notice to a parent or legal guardian of each student enrolled at the school and each staff member of the school, at least seventy-two hours before a pesticide, other than a low impact pesticide, is used on school property. The notice shall include:
 - a. The common name, trade name, and federal Environmental Protection Agency registration number of the pesticide;
 - b. A description of the location of the application of the pesticide;
 - c. The date and time of application, except that, in the case of outdoor pesticide applications, one notice shall include three dates, in chronological order, on which the outdoor pesticide applications may take place if the preceding date is cancelled;
 - d. A statement that the Office of Pesticide Programs of the United States Environmental Protection Agency has stated: “Where possible, persons who potentially are sensitive, such as pregnant women, infants, and children, should avoid any unnecessary pesticide exposure”;
 - e. A description of potential adverse effects of the pesticide based on the material safety data sheet, if available, for the pesticide;

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 5 of 8
School Integrated Pest Management Plan
M

- f. A description of the reasons for the application of the pesticide;
 - g. The name and telephone number of the school district's IPMC; and
 - h. Any additional label instruction and precautions related to public safety.
2. The notice required by D.1. above may be provided by:
- a. Written notice sent home with the pupil and provided to each staff member;
 - b. A telephone call;
 - c. Direct contact;
 - d. Written notice mailed at least one week before the application; or
 - e. Electronic mail.
3. If the date of the application of the pesticide must be extended beyond the period required for notice under this section, the Board shall reissue the notice required under D.1. above for the new date of application.

E. Posting of Sign Prior to Use of Certain Pesticides

At least seventy-two hours before a pesticide, other than a low impact pesticide, is used on school property, the IPMC shall post a sign that provides notice of the application of the pesticide in a prominent place that is in or adjacent to the location to be treated and at each entrance to the building or school ground to be treated.

A sign required for the application of a pesticide shall:

1. Remain posted for at least seventy-two hours after the end of the treatment;
2. Be at least 8½ inches by 11 inches; and
3. State the same information as that required for prior notification of the pesticide application pursuant to Section D.1. of this Regulation.

In the case of outdoor pesticide applications, each sign shall include three dates, in chronological order, on which the outdoor pesticide application may take place if the

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 6 of 8
School Integrated Pest Management Plan
M

preceding date is canceled due to weather. A sign shall be posted after an outdoor pesticide application in accordance with 1, 2 and 3 above.

The requirement imposed pursuant to this section shall be in addition to any requirements imposed pursuant to the "Pesticide Control Act of 1971," P.L. 1971, c.176 (C.13:1F-1 et seq.), and any rules or regulations adopted pursuant thereto.

F. Applicability of Notice and Posting Requirements

The provisions of Sections D and E of this Regulation shall apply if any person applies a pesticide, other than a low impact pesticide, on school property, including a custodian, staff member, or commercial applicator. These provisions shall apply to a school during the school year, and during holidays and the summer months, only if the school is in use by children during those periods. During those periods, notices shall be provided to all staff members and the parents or legal guardians of the students that are using the school in an authorized manner.

G. Emergency Use of Certain Pesticides

A pesticide, other than a low impact pesticide, may be applied on school property in response to an emergency, without complying with the provisions of Sections D and E of this Regulation, provided the following requirements are met:

1. The Building Principal shall, upon prior notice from the IPMC and within twenty-four hours after the application or on the morning of the next school day, provide to each parent or legal guardian of pupils enrolled at the school, and staff members of the school, notice of the application of the pesticide for emergency pest control that includes:
 - a. The information required for a notice under Section D of this Regulation;
 - b. A description of the problem and the factors that qualified the problem as an emergency that threatened the health or safety of a student or staff member; and
 - c. If necessary, a description of the steps that will be taken in the future to avoid emergency application of a pesticide pursuant to this section.

The Commission may provide notice required in G.1. above by:

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 7 of 8
School Integrated Pest Management Plan
M

1. Written notice sent home with the pupil and provided to the staff members;
2. A telephone call;
3. Direct contact; or
4. Electronic mail.

When a pesticide is applied pursuant to this section, the IPMC shall post a sign warning of the pesticide application at the time of the application of the pesticide in accordance with the provisions of Section E of this Regulation.

If there is an application of a pesticide pursuant to this section, the IPMC shall modify the School Integrated Pest Management Plan of the Commission if necessary, to minimize the future emergency applications of pesticides under this section.

A pesticide, other than a low impact pesticide, shall not be applied on school property where students are expected to be present for academic instruction or for organized extra-curricular activities prior to the time prescribed for re-entry to the application site by the United States Environmental Protection Agency on the pesticide label, except that if no specific numerical re-entry time is prescribed on a pesticide label, such a pesticide, other than a low impact pesticide, shall not be applied on school property where pupils are expected to be present for academic instruction or for organized extra-curricular activities within seven hours of the application.

A pesticide, other than a low impact pesticide, shall not be applied in a school building when students are present. Students may not be present in an untreated portion of a school building being treated unless the area being treated with a pesticide, other than a low impact pesticide, is served by a separate ventilation system and is separated from the untreated area by smoke or fire doors.

A low impact pesticide may be applied in areas of a school building where pupils will not contact treated areas until sufficient time is allowed for the substance to dry or settle, or after the period of time prescribed for re-entry or for ventilation requirements on the pesticide label has elapsed.

The requirements of this section shall not apply when pesticides are applied on school property for pupil instructional purposes or by public health officials during the normal course of their duties.

REGULATION

UNION COUNTY
EDUCATIONAL
SERVICES COMMISSION
PROPERTY

R 7422/page 8 of 8
School Integrated Pest Management Plan
M

H. Immunity From Liability of Commercial Pesticide Applicator

A commercial pesticide applicator shall not be liable to any person for damages resulting from the application of a pesticide at a school if the damages are solely due to the failure of the IPMC to provide the notice required prior to the application of a pesticide pursuant to the provisions of sections 7, 8, 9, or 10 of P.L. 2002, c.117 (C.13:1F-25, C.13:1F-26, C.13:1F-27 or C.13:1F-28).

I. Development, Availability of Form for Certifying Compliance

The Department of Environmental Protection shall develop and make available to commercial pesticide applicators a form that a commercial pesticide applicator may request an Integrated Pest Management Coordinator (IPMC) to sign prior to the application of a pesticide, other than a low impact pesticide, on school property. The form developed pursuant to this section shall set forth a certification by the Integrated Pest Management Coordinator (IPMC) that the notice and posting requirements for the application of a pesticide established pursuant to Sections D and E of this Regulation, or the posting requirement established pursuant to Section G of this Regulation, as appropriate, have met compliance requirements. Upon being presented by a commercial pesticide applicator with a form pursuant to this section, the signature of the Integrated Pest Management Coordinator (IPMC) shall be required as a condition for the application of the pesticide.

The Department of Environmental Protection may issue an administrative order against a local school Board that fails to adopt and implement a pesticide use and school Integrated Pest Management Policy in compliance with the provisions of N.J.S.A. 13:1F-32.

The Commissioner shall adopt, pursuant to the provisions of the "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.), such rules or regulations as are necessary to implement the provisions of the School Integrated Pest Management Act.

Issued: December 3, 2003

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 1/10
(30579644/SDS_CPA_US/EN)

1. Identification

Product identifier used on the label

Alpine WSG

Recommended use of the chemical and restriction on use

Recommended use*: insecticide
Recommended use*: insecticide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932
USA
Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 552911
EPA Registration number: 499-561
Synonyms: Dinotefuran

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic
Combustible Dust	Combustible Dust (1)	Combustible Dust

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 2/10
(30579644/SDS CPA US/EN)

Label elements

Hazard Statement:

May form combustible dust concentration in air.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
165252-70-0	40.0 %	Dinotefuran

4. First-Aid Measures

Description of 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 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Special hazards arising from the substance or mixture

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 3/10
(30579644/SDS CPA US/EN)

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.

Advice for fire-fighters

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, protective equipment and emergency procedures

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

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

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.

7. Handling and Storage

Precautions for safe handling

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. 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.

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 4/10
(30579644/SDS CPA US/EN)

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: 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. 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/Personal Protection

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

No occupational exposure limits known.

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 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

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 5/10
(30579644/SDS_CPA_US/EN)

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
Odour threshold:	not applicable, odour not perceivable
Colour:	white
pH value:	approx. 6 - 7 (1 %(m))
melting range:	78 - 109 °C 111 - 144 °C
Boiling point:	not determined
Flash point:	not applicable, the product is a solid
Flammability:	not flammable
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.
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.
Vapour pressure:	not applicable
Density:	approx. 0.5 g/cm ³ (20 °C) The statements are based on the properties of the individual components.
Bulk density:	4.2645 Lb/USg
Vapour density:	not applicable
Self-ignition temperature:	not self-igniting
Thermal decomposition:	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.
Viscosity, dynamic:	not applicable, the product is a solid
Solubility in water:	dispersible
Evaporation rate:	not applicable

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Dust explosivity characteristics:
Kst: 74 m.bar/s

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 6/10
(30579644/SDS_CPA_US/EN)

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

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

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.

Incompatible materials

strong oxidizing agents, strong acids, strong bases

Hazardous decomposition products

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.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Relatively nontoxic after single ingestion. Relatively nontoxic after short-term inhalation. Relatively nontoxic after short-term skin contact.

Oral

Type of value: LD50

Species: rat (female)

Value: > 5,000 mg/kg

Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 5.09 mg/l

Exposure time: 4 h

No mortality was observed.

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 7/10
(30579644/SDS_CPA_US/EN)

Dermal

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

Assessment other acute effects

Assessment of STOT single:
The available information is not sufficient for the evaluation of specific target organ toxicity.

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Buehler test

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

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of 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.

Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other Information

Misuse can be harmful to health.

Symptoms of Exposure

(Further) symptoms and / or effects are not known so far

Medical conditions aggravated by overexposure

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 8/10
(30579644/SDS CPA US/EN)

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

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of 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.

Toxicity to fish

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

Aquatic invertebrates

Information on: Dinotefuran technical
EC50 (48 h) > 1,000 mg/l, Daphnia magna
EC50 (96 h) 0.79 mg/l, Mysisidopsis bahia

Aquatic plants

Information on: Dinotefuran technical
EC50 (72 h) 97.6 mg/l (biomass), Pseudokirchneriella subcapitata

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Dinotefuran technical

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Additional information

Other ecotoxicological advice:

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,

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 9/10
(30579644/SDS_CPA_US/EN)

contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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)

Further information

The following provisions may apply for product in packages containing a net quantity of 5 kg or less
ADR, RID, ADN: Special Provision 375;
IMDG: 2.10.2.7;
IATA: A197;
TDG: Special Provision 99(2);
49CFR: §171.4 (c) (2).

15. Regulatory Information

Federal Regulations

Registration status:

Crop Protection TSCA, US released / exempt

Safety Data Sheet

Alpine WSG

Revision date : 2019/04/30
Version: 8.0

Page: 10/10
(30579644/SDS_CPA_US/EN)

Chemical TSCA, US blocked / not listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 1 Special:

Labeling requirements under FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

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.

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2019/04/30

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.

END OF DATA SHEET

SAFETY DATA SHEET

Section 1: Identification

Product identifier: FirstStrike® Soft Bait
Other identifier(s): EPA Registration Number 7173-258
Uses or restrictions: Rodenticide with difethialone
Manufacturer: Liphatech, Inc.
3600 W. Elm Street, Milwaukee, WI 53209
Emergency phone: 800-351-1476 Monday - Friday 8:00 am - 4:30 pm
(US Central time zone)
After hours phone: Human or Animal emergencies: RMPDC at 866-514-9168
Spill emergencies: CHEMTREC at 800-424-9300

Section 2: Hazard Identification

Hazard class: Specific Target Organ Toxicity (Single exposure), Category 2;
Specific Target Organ Toxicity (Repeated exposure), Category 2
Warning: May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



Section 3: Composition / Information on Ingredients

Hazardous ingredients:
Difethialone (CAS registry no. 104653-34-1) 0.0025%

Section 4: First Aid Measures

Emergency overview: This material may reduce the clotting ability of the blood and cause bleeding. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding. Have the product label with you when obtaining treatment advice.
If swallowed: Call a poison control center or doctor. 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.
If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration and call poison control or doctor.
If in eyes: 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 poison control center or doctor.
If on skin or clothing: Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor.
Note to Physician or Veterinarian: Contains anticoagulant ingredient. For humans or animals ingesting bait and/or showing obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K₁ intramuscularly or orally. In severe cases, blood transfusions may be needed.

Section 5: Fire-fighting Measures

Extinguishing media: Use media suitable for the surrounding fire
Specific fire or explosion hazards: None known
Special cautions for firefighters: Wear self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

Section 6: Accidental Release Measures

Precautions, PPE and Procedures: Wearing PPE as specified in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.
Methods and materials: Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

Section 7: Handling and Storage

Precautions for safe handling: Read the entire product label before using this rodenticide. **Conditions for safe storage:** Store in original container in a cool, dry area out of reach of children, pets and domestic animals. Do not contaminate water, food or feed. Keep container tightly closed. Do not remove or destroy the product label.

Section 8: Exposure Controls / Personal Protection

Established exposure limits: Not applicable

Appropriate engineering controls: Special ventilation is not required for the normal handling and use of this product when following label instructions.
Individual protection measures: Wear long pants, shoes, socks and waterproof gloves when handling this product. Follow manufacturer's instructions for cleaning/maintaining PPE, or else wash with detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. Wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

Section 9: Physical and Chemical Properties

Appearance: Soft paste, blue color, raw grain odor. Odor threshold not determined.
Water solubility: Negligible **pH:** Not applicable
Relative density: 1.11 g/cc **Viscosity:** Not applicable
% Volatile (volume): Not applicable **Evaporation rate:** Not applicable
Vapor density: Not applicable **Vapor pressure:** Not applicable
Boiling point: Not determined **Freezing point:** Not applicable
Flash point (ASTM D92): >150 °C **Autoignition temp.:** Not determined
Flammability: Not a flammable solid **Decomposition temp.:** Not determined
Explosive limits - Lower limit: Not applicable; **Upper limit:** Not applicable
Partition coefficient (n-octanol/water): Not applicable

Section 10: Stability and Reactivity

Reactivity: Not reactive, not sensitive to shock or static discharge
Chemical stability: Stable **Hazardous reactions:** None
Incompatible materials: None **Conditions to avoid:** None
Hazardous decomposition products: Oxides of carbon

Section 11: Toxicological Information

Likely routes of exposure: Ingestion, skin absorption.
Symptoms of toxicity: Lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.
Eye effects/eye irritation: Mild, transient irritant
Acute oral effects: LD₅₀ (oral-rat): >5000 mg/kg
Acute inhalation effects: LC₅₀ (rat, 4 hour): 200 mg/L (extrapolated)
Acute dermal effects: LD₅₀ (dermal-rabbit): >2000 mg/kg
Skin irritation: Non-irritating
Skin sensitization: Not a skin sensitizer
Carcinogenicity: No ingredient listed by NTP, IARC or OSHA

Section 12: Ecological Information

This product is extremely toxic to birds and mammals. Do not apply this product directly to water, where surface water is present or to intertidal areas below the mean high water mark. Carefully follow label cautions and directions to reduce hazards to children, pets and non-target wildlife.

Section 13: Disposal Considerations

Disposal: Wastes resulting from the use of this product according to the label instructions must be disposed of as specified on the product label.
RCRA waste status: This product is not regulated as a hazardous waste under Federal law. State and local regulation may affect the disposal of this product. Consult your state or local environmental agency for disposal of waste generated other than by use according to label instructions.

Section 14: Transport Information

Transportation data (49 CFR): This product is not regulated as a hazardous material for all modes of transportation within the U.S.
Hazard Class, Packing Group and UN ID No.: Not applicable

Section 15: Regulatory Information

TSCA: All components of this product are listed on the TSCA inventory.
SARA section 313: Contains no reportable components.
CA Proposition 65: Contains no substances subject to Prop 65 requirements.
FIFRA: This product is registered as a pesticide with the U.S. Environmental Protection Agency. The label requirements under Federal pesticide law differ from the classification criteria and hazard information required by OSHA on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container.

Section 16: Other Information

Prepared by: K. Paavola **Date:** 13 August 2019
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation.

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION ANT GEL**
Product No.: A20377A
Use: Insecticide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
Signal Word (OSHA): Not Applicable
Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other inert ingredients	Other inert ingredients	Not Applicable	99.95%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)]4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.05%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

- Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

ADVION ANT GEL

Date: 3/18/2014
 Replaces: 11/1/2013

Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other inert ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white, opaque gel

Odor: Very faint

Odor Threshold: Not Available

pH: 7.2 (1% solution in H₂O)

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): Not Available

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Indoxacarb Technical Not Available

Vapor Density: Not Available

Relative Density: 1.15 - 1.24 g/ml @ ca.185°F (85°C)

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

Solubility (ies): Indoxacarb Technical Not Available
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: Not Available

10. STABILITY AND REACTIVITY

Reactivity: Not Applicable
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: Not Available
Incompatible materials: Not Available
Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 5.5 mg/l 4 hrs (applies to technical dry material)
Eye Contact:	Non-Irritating (Rabbit)	
Skin Contact:	Non-Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Mouse)	

Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

ADVION ANT GEL

Date: 3/18/2014
 Replaces: 11/1/2013

Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
Other inert ingredients	No
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No

Other Toxicity Information

None

Toxicity of Other Components

Other inert ingredients
 Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other inert ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Indoxacarb Technical:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Safety Data Sheet



ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA
Not regulated

Comments

Water Transport - International
Not regulated

Air Transport
Not regulated

15. REGULATORY INFORMATION

Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

EPA Registration Number(s):

100-1498

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

California Proposition 65:

Not Applicable

CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Instability: 0

HMIS Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

Syngenta Hazard Category: A

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 2/22/2013
Revision Date: 3/18/2014 Replaces: 11/1/2013
Section(s) Revised: 1 - 16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.



**MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL**

Version 3.0 / USA
102000001393

1/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE
COMPANY/UNDERTAKING**

Product identifier

Trade name MAXFORCE® PROFESSIONAL INSECT CONTROL® ROACH KILLER
BAIT GEL

Product code (UVP) 05938384

SDS Number 102000001393

EPA Registration No. 432-1254

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on use See product label for restrictions.

Information on manufacturer

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Emergency telephone no.

**Emergency Telephone
Number (24hr/ 7 days)** 1-800-334-7577 (24 hours/day)

**Product Information
Telephone Number** 1-800-331-2867

SDS Information or Request SDSINFO.BCS-NA@bayer.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Specific target organ toxicity - repeated exposure : Category 1

Reproductive toxicity : Category 1B



Signal word: Danger

Hazard statements

Causes damage to organs (kidneys, testes) through prolonged or repeated exposure.

May damage fertility or the unborn child.



**MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL**

Version 3.0 / USA
102000001393

2/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

Precautionary statements

Do not breathe vapours.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
IF exposed or if you feel unwell:
Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Hydramethylnon	67485-29-4	2.15
Oleic acid	112-80-1	2.15
Starch	9005-25-8	1.00

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation 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.

Skin contact 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.

Eye contact 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.

Ingestion 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.

Most important symptoms and effects, both acute and delayed



**MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL**

Version 3.0 / USA
102000001393

3/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

Symptoms	Local:, To date no symptoms are known. Systemic:, May cause stuffy or runny nose and scratchy throat., Lacrimation, Lethargy, Diarrhoea
Indication of any immediate medical attention and special treatment needed	
Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet

Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
--	---

Advice for firefighters

Special protective equipment for fire-fighters	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
---	--

Further information	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
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Flash point	no data available
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Autoignition temperature	no data available
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Lower explosion limit	no data available
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Upper explosion limit	no data available
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Explosivity	not applicable
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**MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL**

Version 3.0 / USA
102000001393

4/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.

Advice on protection against fire and explosion No special precautions required.

Hygiene measures 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.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, 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.

Advice on common storage Keep away from food, drink and animal feedingstuffs.



**MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL**

Version 3.0 / USA
10200001393

5/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Hydramethylnon	67485-29-4	1.4ug/m3 (AN ESL)	07 2011	TX ESL
Hydramethylnon	67485-29-4	14ug/m3 (ST ESL)	07 2011	TX ESL
Starch	9005-25-8	10 mg/m3 (TWA)	02 2012	ACGIH
Starch (Respirable.)	9005-25-8	5 mg/m3 (REL)	2010	NIOSH
Starch (Total)	9005-25-8	10 mg/m3 (REL)	2010	NIOSH
Starch (Total dust.)	9005-25-8	15 mg/m3 (PEL)	02 2006	OSHA Z1
Starch (Respirable fraction.)	9005-25-8	5 mg/m3 (PEL)	02 2006	OSHA Z1
Starch (Respirable fraction.)	9005-25-8	5 mg/m3 (TWA)	1989	OSHA Z1A
Starch (Total dust.)	9005-25-8	15 mg/m3 (TWA)	1989	OSHA Z1A
Starch (Respirable fraction.)	9005-25-8	5 mg/m3 (TWA)	06 2008	TN OEL
Starch (Total dust.)	9005-25-8	15 mg/m3 (TWA)	06 2008	TN OEL
Starch (Particulate.)	9005-25-8	50ug/m3 (ST ESL)	02 2013	TX ESL
Starch (Particulate.)	9005-25-8	5ug/m3 (AN ESL)	02 2013	TX ESL

No control parameters known.

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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.

Hand protection

Chemical resistant nitrile rubber gloves

Eye protection

Tightly fitting safety goggles

Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.



MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL

Version 3.0 / USA
102000001393

6/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

General protective measures 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brown
Physical State	gel
Odor	odourless
Odour Threshold	no data available
pH	6.5 - 7.5
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	ca. 1.10 g/cm ³
Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	no data available
Water solubility	partly soluble
Minimum Ignition Energy	not applicable
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity	ca. 140,000 - 300,000 mPa.s at 25 °C
Flash point	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Explosivity	not applicable



MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL

Version 3.0 / USA
102000001393

7/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	no data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Ingestion, Skin Absorption, Eye contact
Immediate Effects	
Eye	Moderate eye irritation.
Skin	Harmful if absorbed through skin.
Ingestion	Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity	LD50 (rat) > 5,000 mg/kg
Acute dermal toxicity	LD50 (rabbit) > 2,000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	No eye irritation (rabbit)
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test

Assessment repeated dose toxicity

Hydramethylnon caused specific target organ toxicity in experimental animal studies in the following organ(s): testes, kidneys.

Assessment Mutagenicity

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

Assessment Carcinogenicity

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

ACGIH



MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL

Version 3.0 / USA
10200001393

8/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

Starch 9005-25-8 Group A4

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Hydramethylnon caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. Hydramethylnon caused testicular damage and male infertility.

Assessment developmental toxicity

Hydramethylnon caused developmental toxicity only at dose levels toxic to the dams. Hydramethylnon caused a delayed foetal growth.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0.16 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient hydramethylnon.
Toxicity to aquatic invertebrates	EC50 (Water flea (<i>Daphnia magna</i>)) 1.14 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient hydramethylnon.
Toxicity to aquatic plants	EC50 (<i>Selenastrum capricornutum</i>) 0.005 - 0.018 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient hydramethylnon.
Biodegradability	Hydramethylnon: ; not rapidly biodegradable
Koc	Hydramethylnon: Koc: 730000
Bioaccumulation	Hydramethylnon: Bioconcentration factor (BCF) 34,900; Does not bioaccumulate.
Mobility in soil	Hydramethylnon: Immobile in soil
Environmental precautions	Do not allow to get into surface water, drains and ground water. 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.



MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL

Version 3.0 / USA
102000001393

9/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.
Contaminated packaging	Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR	Not dangerous goods / not hazardous material
IMDG	
UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDRAMETHYLNON SOLUTION)
IATA	
UN number	3082
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDRAMETHYLNON SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

SECTION 15: REGULATORY INFORMATION



MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL

Version 3.0 / USA
102000001393

10/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

EPA Registration No. 432-1254

US Federal Regulations

TSCA list

Oleic acid 112-80-1
Starch 9005-25-8

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

Hydramethylnon 67485-29-4 25,000lbs

US States Regulatory Reporting

CA Prop65

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

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Hydramethylnon	67485-29-4	Developmental toxin.
Hydramethylnon	67485-29-4	Male reproductive toxin.

US State Right-To-Know Ingredients

Hydramethylnon	67485-29-4	NJ
Oleic acid	112-80-1	RI
Starch	9005-25-8	MN

Canadian Regulations

Canadian Domestic Substance List

Oleic acid	112-80-1
Starch	9005-25-8

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)

Starch	9005-25-8
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EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:



**MAXFORCE® PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL**

Version 3.0 / USA
102000001393

11/11
Revision Date: 09/08/2014
Print Date: 02/09/2015

Signal word: Caution!

Hazard statements: Harmful if swallowed or absorbed through skin.
Moderate eye irritation.
Avoid contact with skin, eyes and clothing.
Keep exposed gel away from open food and food contact surfaces.

SECTION 16: OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

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

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 09/08/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.



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Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12

Version: 12.0

Page: 1/13

(30128307/SDS CPA_US/EN)

1. Identification

Product identifier used on the label

Phantom Termiticide/Insecticide

Recommended use of the chemical and restriction on use

Recommended use*: crop protection product, insecticide

Recommended use*: insecticide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION

100 Park Avenue

Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 62151

EPA Registration number: 241-392

Molecular formula: C(15) H(11) Br Cl F(3) N(2) O

Chemical family: pyrrole derivative

Synonyms: chlorfenapyr

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.

4 (oral)

Acute toxicity

Acute Tox.

3 (Inhalation - mist)

Acute toxicity

Aquatic Acute

1

Hazardous to the aquatic environment - acute

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 2/13
(30128307/SDS_CPA_US/EN)

Aquatic Chronic

1

Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H331 Toxic if inhaled.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P261 Avoid breathing mist.
P270 Do not eat, drink or smoke when using this product.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311 Call a POISON CENTER or doctor/physician.
P330 Rinse mouth.
P391 Collect spillage.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 1 - 3 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 9 - 12 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 9 - 12 % Inhalation - mist

May produce an allergic reaction. Contains: 1,2-benzisothiazol-3(2H)-one

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
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Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 3/13
(30128307/SDS_CPA_US/EN)

122453-73-0	21.45 %	Chlorfenapyr
64-19-7	0.3%	Acetic acid
2634-33-5	0.1%	1,2-benzisothiazol-3(2H)-one

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

If in eyes:

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

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting unless told to by a poison control center or doctor. Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. Take patient to hospital immediately. Medical monitoring for at least 7 days.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far
Symptoms of poisoning may only appear after several hours or several days.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 4/13
(30128307/SDS_CPA_US/EN)

Suitable extinguishing media:
foam, dry powder, carbon dioxide, water spray

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, hydrogen bromide, hydrochloric acid, Hydrofluoric acid, hydrogen fluoride, halogenated hydrocarbons, nitrogen dioxide, To be archived: Hydrocarbons,
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways. Do not decontaminate personnel or equipment, or handle broken packages or containers without appropriate personal protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for safe handling

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 aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. 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.

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 5/13
(30128307/SDS_CPA_US/EN)

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. 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.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: 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.

8. Exposure Controls/Personal Protection

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

No occupational exposure limits known.

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) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. 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). Wear face shield if splashing hazard exists.

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:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Personal protective equipment should be decontaminated prior to reuse.

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 6/13
(30128307/SDS_CPA_US/EN)

Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off 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:	liquid
Odour:	sweetish, characteristic
Odour threshold:	Not determined since toxic by inhalation.
Colour:	white to light brown
pH value:	approx. 6 - 8 (approx. 25 °C) (measured with the undiluted substance)
Freezing point:	approx. 0 °C (1,013.3 hPa)
Boiling point:	Information applies to the solvent. approx. 100 °C (1,013 mbar)
Flash point:	Information applies to the solvent. > 95 °C
Flammability:	Based on the chemical structure there is no indication of flammability
Autoignition:	not applicable
Vapour pressure:	approx. 23.3 hPa (20 °C) Information applies to the solvent.
Density:	approx. 1.13 g/cm ³ (20 °C)
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Thermal decomposition:	carbon monoxide, carbon dioxide, hydrogen bromide, hydrochloric acid, Hydrofluoric acid, hydrogen fluoride, halogenated hydrocarbons, nitrogen dioxide, To be archived: Hydrocarbons Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.
Viscosity, dynamic:	approx. 757 mPa.s (20 °C)
Solubility in water:	dispersible
Molar mass:	407.6 g/mol
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12

Version: 12.0

Page: 7/13

(30128307/SDS CPA US/EN)

Oxidizing properties:
not fire-propagating (Regulation 440/2008/EC, A.21)
Not an oxidizer.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.
No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous 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, hydrogen bromide, hydrochloric acid, Hydrofluoric acid, hydrogen fluoride, halogenated hydrocarbons, nitrogen dioxide, To be archived: Hydrocarbons
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Slightly toxic after single ingestion. Slightly toxic after short-term inhalation. Slightly toxic after short-term skin contact.

Oral

Type of value: LD50

Species: mouse (male)

Value: 45 mg/kg

Same product LD50 is assigned for precautionary reasons in view of human poisoning incidents

Inhalation

Type of value: LC50

Species: rat (male)

Value: 2.284 mg/l (calculated)

Exposure time: 1 h

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 8/13
(30128307/SDS_CPA_US/EN)

Type of value: LC50
Species: rat (female)
Value: > 6.4 mg/l (calculated)
Exposure time: 1 h

Dermal

Type of value: LD50
Species: rabbit
Value: > 2,000 mg/kg

Assessment other acute effects

Assessment of STOT single:
A single exposure may have relevant toxic effects on organs.

Target organ: Nervous system

Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. May cause slight but temporary irritation to the eyes.

Skin

Species: rabbit
Result: Slightly irritating.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye

Species: rabbit
Result: non-irritant

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

modified Buehler test

Species: guinea pig
Result: Skin sensitizing effects were not observed in animal studies.
Method: OECD Guideline 406

Aspiration Hazard

No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: chlorfenapyr

Assessment of repeated dose toxicity: May cause damage to the nervous system.

Genetic toxicity

Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 9/13
(30128307/SDS_CPA_US/EN)

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other Information

Reported human health effects after incorporation: immediate symptoms after oral ingestion may comprise nausea, vomiting, sweating and abdominal pain. Subsequent symptoms emerging with a delay of a few days up to 10-14 days may include drowsiness, tachypnea, tachycardia or arrhythmia, hypertension, fever, diaphoresis, muscle fasciculation, muscle stiffness, weakness of limbs (sometimes leading to paralysis), hepatic and renal dysfunction, pancreatitis, and sudden disturbance of consciousness followed by coma and cardiac arrest. Misuse can be fatal.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far
Symptoms of poisoning may only appear after several hours or several days.

Medical conditions aggravated by overexposure

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

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to fish. Very toxic (acute effect) to aquatic invertebrates. Acutely toxic for aquatic plants.

Toxicity to fish

LC50 (96 h) 0.108 mg/l, *Oncorhynchus mykiss* (Flow through.)

Aquatic invertebrates

EC50 (48 h) 0.0121 mg/l, *Daphnia magna* (static)

Aquatic plants

EC50 (72 h) 4.09 mg/l, *Selenastrum capricornutum* (OECD Guideline 201)

Chronic toxicity to fish

Information on: chlorfenapyr

No observed effect concentration (93 d) 0.003678 mg/l, *Oncorhynchus mykiss*

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 10/13
(30128307/SDS_CPA_US/EN)

Chronic toxicity to aquatic invertebrates

Information on: chlorfenapyr

No observed effect concentration (28 d) 0.000172 mg/l, Mysidopsis bahia

Assessment of terrestrial toxicity

Acutely very toxic to terrestrial organisms.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Information on: chlorfenapyr

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

Bioaccumulation potential

Information on: chlorfenapyr

*Bioconcentration factor: 116, Cyprinus carpio
Accumulation in organisms is not to be expected.*

Mobility in soil

Assessment transport between environmental compartments

Information on: chlorfenapyr

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Additional information

Other ecotoxicological advice:
The ecological data given are those of the active ingredient.

13. Disposal considerations

Waste disposal of substance:

Must be disposed of or incinerated in accordance with local regulations.

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.

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 11/13
(30128307/SDS CPA US/EN)

RCRA:

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 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains CHLORFENAPYR)

Air transport IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains CHLORFENAPYR)

Further information

The following provisions may apply for product in packages containing a net quantity of 5 L or less
ADR, RID, ADN: Special Provision 375;
IMDG: 2.10.2.7;
IATA: A197;
TDG: Special Provision 99(2);
49CFR: §171.4 (c) (2).

15. Regulatory Information

Federal Regulations

Registration status:

Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

State regulations

Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 12/13
(30128307/SDS_CPA_US/EN)

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	57-55-6	Propylene glycol
PA	57-55-6	Propylene glycol

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

BASF Risk Assessment, CA Prop. 65:

Based on an evaluation of the product's composition and the use(s), this product does not require a California Proposition 65 Warning.

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 1 Special:

Labeling requirements under FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:

HARMFUL IF SWALLOWED.

HARMFUL IF INHALED.

HARMFUL IF ABSORBED THROUGH SKIN.

May cause moderate but temporary irritation to the eyes.

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

Do not get in eyes, on skin, or on clothing.

Avoid inhalation of mists/vapours.

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2019/07/12

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.

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Safety Data Sheet

Phantom Termiticide/Insecticide

Revision date : 2019/07/12
Version: 12.0

Page: 13/13
(30128307/SDS_CPA_US/EN)

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END OF DATA SHEET



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
102000006700

1/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name TEMPO® 1% DUST INSECTICIDE READY TO USE
Product code (UVP) 05173213
SDS Number 102000006700
EPA Registration No. 432-1373

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide
Restrictions on use See product label for restrictions.

Information on manufacturer

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577 (24 hours/day)

Product Information Telephone Number 1-800-331-2867

SDS Information or Request SDSINFO.BCS-NA@bayer.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity (Oral): Category 4
Eye irritation : Category 2B



Signal word: Warning

Hazard statements

Harmful if swallowed.
Causes eye irritation.

Precautionary statements

Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
102000006700

2/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Cyfluthrin	68359-37-5	1.00
Crystalline quartz (respirable)	14808-60-7	4.88
Calcium sulfate	13397-24-5	89.30

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice

When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation

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.

Skin contact

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.

Eye contact

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.

Ingestion

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.

Most important symptoms and effects, both acute and delayed

Symptoms

To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Treatment

Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
10200006700

3/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable High volume water jet

Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point not applicable

Autoignition temperature no data available

Lower explosion limit not applicable

Upper explosion limit not applicable

Explosivity no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. 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.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
102000006700

4/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

Precautions for safe handling

Advice on safe handling 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.

Hygiene measures 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.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Advice on common storage Keep away from food, drink and animal feedingsuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Cyfluthrin	68359-37-5	0.01 mg/m3 (TWA)		OES BCS*
Cyfluthrin (Particulate.)	68359-37-5	5ug/m3 (AN ESL)	02 2013	TX ESL
Cyfluthrin (Particulate.)	68359-37-5	50ug/m3 (ST ESL)	02 2013	TX ESL
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m3 (TWA)	1998	JO TLV
Crystalline quartz (respirable) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	14ug/m3 (ST ESL)	02 2013	TX ESL



TEMPO® 1% DUST INSECTICIDE READY TO USE

5/11

Version 3.0 / USA
102000006700

Revision Date: 09/19/2014
Print Date: 02/09/2015

Crystalline quartz (respirable) (Particulate.)	14808-60-7	0.27ug/m3 (AN ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Crystalline quartz (respirable) (Respirable.)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA)	2000	Z3
Calcium sulfate (Inhalable fraction.)	13397-24-5	10 mg/m3 (TWA)	02 2012	ACGIH
Calcium sulfate (Total)	13397-24-5	10 mg/m3 (REL)	2010	NIOSH
Calcium sulfate (Respirable.)	13397-24-5	5 mg/m3 (REL)	2010	NIOSH
Calcium sulfate (Total dust.)	13397-24-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium sulfate (Respirable fraction.)	13397-24-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium sulfate (Total dust.)	13397-24-5	15 mg/m3 (TWA)	1989	OSHA Z1A
Calcium sulfate (Respirable fraction.)	13397-24-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Calcium sulfate	13397-24-5	5ug/m3 (AN ESL)	03 2012	TX ESL
Calcium sulfate	13397-24-5	50ug/m3 (ST ESL)	03 2012	TX ESL
Silica, amorphe	7631-86-9	6 mg/m3 (REL)	2010	NIOSH
Silica, amorphe (Particulate.)	7631-86-9	27ug/m3 (ST ESL)	02 2013	TX ESL
Silica, amorphe (Particulate.)	7631-86-9	2ug/m3 (AN ESL)	02 2013	TX ESL
Silica, amorphe	7631-86-9	0.8 mg/m3 (TWA)	2000	Z3
Silica, amorphe	7631-86-9	20millions of particles per cubic foot of air (TWA)	2000	Z3

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



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
102000006700

6/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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.
Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Goggles
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to light beige
Physical State	powder
Odor	musty
Odour Threshold	no data available
pH	no data available
Vapor Pressure	not applicable
Vapor Density (Air = 1)	not applicable
Bulk density	61 lb/ft ³ (bulk density tapped) 35 lb/ft ³ (loose)
Evaporation rate	no data available
Boiling Point	not applicable
Melting / Freezing Point	not applicable
Water solubility	dispersible
Minimum Ignition Energy	no data available
Decomposition temperature	ca. 500 °C
Partition coefficient: n-octanol/water	not applicable
Viscosity	not applicable



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
10200006700

7/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	ca. 500 °C
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Exposure to moisture.
Incompatible materials	no data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Inhalation, Eye contact, Skin Absorption, Ingestion
Immediate Effects	
Eye	Moderate eye irritation.
Skin	Can cause irritation to the skin resulting in effects such as burning and/or tingling sensation. May cause irritation, redness. Harmful if absorbed through skin.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled. May cause upper respiratory tract irritation.
Information on toxicological effects	
Acute oral toxicity	LD50 (male rat) 3,084 mg/kg LD50 (female rat) 1,733 mg/kg
Acute inhalation toxicity	LC50 (male/female combined rat) > 1.18 mg/l Exposure time: 4 h Determined in the form of dust. Highest attainable concentration.



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
102000006700

8/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

	No deaths
	LC50 (male/female combined rat) > 4.72 mg/l
	Exposure time: 1 h
	Determined in the form of dust.
	Extrapolated from the 4 hr LC50.
Acute dermal toxicity	LD50 (male/female combined rabbit) > 2,000 mg/kg
Skin irritation	Slight irritation (rabbit)
Eye irritation	Mild eye irritation. (rabbit)
Sensitisation	Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity

The toxic effects of Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment Mutagenicity

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

Assessment Carcinogenicity

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

ACGIH

Crystalline quartz (respirable)	14808-60-7	Group A2
---------------------------------	------------	----------

NTP

Crystalline quartz (respirable)	14808-60-7	2000
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IARC

Crystalline quartz (respirable)	14808-60-7	Overall evaluation: 1
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OSHA

None.

Assessment toxicity to reproduction

Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Cyfluthrin is related to parental toxicity.

Assessment developmental toxicity

Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Cyfluthrin are related to maternal toxicity.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (Rainbow trout)) 0.00047 mg/l



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
102000006700

9/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

	Exposure time: 96 h The value mentioned relates to the active ingredient cyfluthrin.
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) 0.00016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient cyfluthrin.
Toxicity to aquatic plants	IC50 (Desmodemus subspicatus) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient cyfluthrin.
Biodegradability	Cyfluthrin: ; not rapidly biodegradable
Koc	Cyfluthrin: Koc: 64300
Bioaccumulation	Cyfluthrin: Bioconcentration factor (BCF) 506; Does not bioaccumulate.
Mobility in soil	Cyfluthrin: Immobile in soil
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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	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. Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Do not re-use empty containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR	Not dangerous goods / not hazardous material
IMDG	
UN number	3077



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
10200006700

10/11
Revision Date: 09/19/2014
Print Date: 02/09/2015

Class 9
Packaging group III
Marine pollutant YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(CYFLUTHRINE MIXTURE)

IATA

UN number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(CYFLUTHRINE MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN
POISON

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1373

US Federal Regulations

TSCA list

Crystalline quartz (respirable) 14808-60-7

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

Cyfluthrin 68359-37-5 10,000lbs

US States Regulatory Reporting

CA Prop65

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

Crystalline quartz (respirable) 14808-60-7

US State Right-To-Know Ingredients

Cyfluthrin 68359-37-5 NJ
Crystalline quartz (respirable) 14808-60-7 MN

Canadian Regulations

Canadian Domestic Substance List

Crystalline quartz (respirable) 14808-60-7
Calcium sulfate 13397-24-5

Bayer Environmental Science
SAFETY DATA SHEET



TEMPO® 1% DUST INSECTICIDE READY TO USE

Version 3.0 / USA
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Revision Date: 09/19/2014
Print Date: 02/09/2015

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)

Cyfluthrin	68359-37-5
Crystalline quartz (respirable)	14808-60-7

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: Harmful if swallowed, inhaled or absorbed through the skin.
Moderate eye irritation.
Do not get in eyes, on skin, or on clothing.
Avoid breathing dust.

SECTION 16: OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

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

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2 Flammability - 1 Physical Hazard - 0 PPE -

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

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 09/19/2014

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