

**DuPont™ Advion® Cockroach Gel Bait**

Version 2.1

Revision Date 19.03.2010

Ref.130000029437

This SDS adheres to the standards and regulatory requirements of the European Union and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : DuPont™ Advion® Cockroach Gel Bait

Synonyms : B12141924

Use of the
Substance/Mixture : Biocidal productCompany : Du Pont de Nemours International S.A.
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2. HAZARDS IDENTIFICATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Avoid treating areas that are easily accessible to children and pets.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Indoxacarb (S-Enantiomer)	173584-44-6		T; R25 R43 N; R50/53	0,6

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person.

Inhalation : No hazards which require special first aid measures. Is not considered a potential route of exposure. Consult a physician if necessary.

Skin contact : No hazards which require special first aid measures. Wash with water and soap

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- as a precaution. In the case of skin irritation or allergic reactions see a physician.
- Eye contact : No hazards which require special first aid measures. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion : No hazards which require special first aid measures. Do not induce vomiting without medical advice. Rinse mouth with water. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment., Water, Water spray, Foam, Dry chemical, Carbon dioxide (CO₂),
- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk),
- Specific hazards during fire fighting : Not a fire or explosion hazard.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Use appropriate container to avoid environmental contamination. Prevent further leakage or spillage. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Clean-up methods - small spillage For small spills, use cloth or paper towels and place collected material and towels in appropriate container for disposal.
- Clean-up methods - large spillage Soak up with inert absorbent material (e.g.

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sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal. Flush away traces with water.

Additional advice : Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling : Before using, read the product bulletin. Wear personal protective equipment. Do not get in eyes or mouth or on skin. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Wash hands before breaks and immediately after handling the product. Close container after each use. For personal protection see section 8.

Advice on protection against fire and explosion : Do not apply this product around electrical equipment due to the possibility of shock hazard.

Storage

Requirements for storage areas and containers : Store in original container. Keep in properly labelled containers. Keep tightly closed in a dry and cool place. Store in a place accessible by authorized persons only. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products.

Storage temperature : > 3 °C

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection : Material: Protective gloves
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses with side-shields conforming to EN166

Hygiene measures : Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace. Avoid prolonged contact with eyes, skin and clothing. When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feedingstuffs. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.

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Protective measures : No PPE is specified however, avoid contact with skin, eyes, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : gel,
Colour : light tan,
Odour : slight,
pH : 5,4 at 10 g/l (25 °C), Method: CIPAC MT 75
Flash point : > 100 °C
Flammability (solid, gas) : Does not sustain combustion.
Oxidizing properties : The product is not oxidizing.
Explosive properties : Not explosive
Density : 1,123 g/cm³ at 22 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : Temperature : < 3 °C Protect from frost.
Materials to avoid : No materials to be especially mentioned.
Hazardous reactions : None reasonably foreseeable. No dangerous reaction known under conditions of normal use. Stable at normal temperatures and storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50/ rat: > 5 000 mg/kg Method: OECD Test Guideline 425
(Data on the product itself)
Information source: Internal study report

Acute inhalation toxicity
• Indoxacarb (S-Enantiomer) : LC50/ 4 h/ rat female: 4,2 mg/l

Acute dermal toxicity : LD50/ rat 5 000 mg/kg
Method: OECD Test Guideline 402
(Data on the product itself)
Information source: Internal study report

Skin irritation : rabbit
Result: No skin irritation Method: OECD Test Guideline 404 (Data on the product itself) Information source: Internal study report

Eye irritation : rabbit
Result: No eye irritation Method: OECD Test Guideline 405 (Data on the product


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itself) Information source: Internal study report

Sensitisation : Local lymph node test mouse Result: Animal test did not cause sensitization by skin contact. Method: OECD Test Guideline 429 (Data on the product itself)
Information source: Internal study report

Mutagenicity assessment

- Indoxacarb (S-Enantiomer) : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Did not cause genetic damage in animals.

Carcinogenicity assessment

- Indoxacarb (S-Enantiomer) : Did not show carcinogenic effects in animal experiments.

Toxicity to reproduction assessment

- Indoxacarb (S-Enantiomer) : Animal testing did not show any effects on fertility.

12. ECOLOGICAL INFORMATION
Elimination information (persistence and degradability)

Biodegradability : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Toxicity to fish

- Indoxacarb (S-Enantiomer) : LC50 / 96 h/ *Lepomis macrochirus* (Bluegill sunfish) : 0,90 mg/l

Toxicity to algae

- Indoxacarb (S-Enantiomer) : / EC50/ 14 d/ *Lemna gibba* (duckweed): > 84,3 mg/l

There were no detectable inhibitory effects on the cell density, growth, and growth rate of *Pseudokirchneriella subcapitata* after 72 or 120 hours exposure at the solubility limit in the test medium.

Aquatic toxicity

- Indoxacarb (S-Enantiomer) : / EC50/ 96 h/ *Mysidopsis bahia* (mysid shrimp): 0,0543 mg/l

Chronic toxicity to fish

- Indoxacarb (S-Enantiomer) : Early Life-Stage/ NOEC/ 90 d/ *Oncorhynchus mykiss* (rainbow trout): 0,15 mg/l
Method:

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Chronic toxicity to aquatic Invertebrates

- Indoxacarb (S-Enantiomer) : / NOEC/ 21 d/ Daphnia magna (Water flea): < 1 mg/l

Further information on ecology

Additional ecological information : No data is available on the product itself. 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

- Product : Do not contaminate ponds, waterways or ditches with chemical or used container. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. In accordance with local and national regulations.
- Contaminated packaging : Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

- Further information : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Hazardous components: Indoxacarb (S-Enantiomer)

R-phrases : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : S 2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feedingstuffs.
S35 This material and its container must be disposed of in a safe way.
S46 If swallowed, seek medical advice immediately and show this container or label.

Special labelling of certain mixtures : To avoid risks to man and the environment, comply with the instructions for use.

Sensitising components contains:
Indoxacarb (S-Enantiomer)
Indoxacarb, (R-enantiomer)
May produce an allergic reaction.

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16. OTHER INFORMATION**Text of R-phrases mentioned in Section 3**

R25	Toxic if swallowed.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

Before use read DuPont's safety information., Take notice of the directions of use on the label.

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Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

DuPont™ Advion®

COCKROACH GEL BAIT

INTENDED FOR USE BY COMMERCIAL APPLICATORS

FOR USE IN RESIDENTIAL, INSTITUTIONAL, COMMERCIAL, AND INDUSTRIAL AREAS

Use sites include single and multi-family residential buildings, schools, commercial and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, food handling/storage establishments), and transportation equipment such as aircraft, trains, ships, boats, buses.

<i>Active Ingredient</i>	<i>By Weight</i>
Indoxacarb	
(S)-methyl 7-chloro-2,5-dihydro-2-[[methoxy-carbonyl][4(trifluoromethoxy)phenyl]amino]-carbonyl]indeno[1,2-e][1,3,4]oxadiazine-4a-(3H)-carboxylate	0.6%
<i>Other ingredients</i>	99.4%
TOTAL	100.0%

EPA Reg. No. 352-652

EPA Est. No. XXX-XXX

Net Contents: 30 grams (1.058 oz)

Total Weight: xx oz/ xx g (xx oz/xx g per dispenser)

KEEP OUT OF REACH OF CHILDREN

CAUTION

DO NOT TREAT AREAS THAT ARE EASILY ACCESSIBLE TO CHILDREN AND PETS

Refer to back/side panels for additional precautionary statements and First Aid

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

For information on the use of this product call DuPont Professional Products at 1-888-6-DUPONT (1-888-638-7668)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

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.

PHYSICAL AND CHEMICAL HAZARDS

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.



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DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

PRODUCT INFORMATION

DuPont™ ADVION® Cockroach Gel Bait is designed to control pest species of cockroaches such as German, American, Australian, Smoky-Brown, Brown, Asian, Oriental, and Brown-Banded.

Use Instructions and Precautions: Do not treat areas that are easily accessible to children and pets.

1. ADVION® cockroach gel can be used indoors or outdoors applied as a crack and crevice treatment within residential homes, industrial facilities, offices, warehouses, commercial kitchens, hospitals, schools, nursing homes, hotels, buses, trains, aircraft, retail and commercial establishments, and other areas infested with cockroaches.
2. Apply ADVION® cockroach gel to areas frequented by cockroaches such as between different elements of construction, between equipment and floors, openings leading into voids and hollow spaces in floors, walls, ceilings, equipment legs and bases, around plumbing pipes, doors and windows, and behind and under appliances, cabinets, sinks, closets, and any other equipment that cockroaches are typically known to hide.
3. Do not apply ADVION® cockroach gel to surfaces recently treated with residual sprays.
4. Surfaces treated with ADVION® cockroach gel should not be treated with residual sprays.
5. Inspect bait placements during follow-up inspections and apply fresh bait as needed.
6. Do not apply to surfaces that food contacts.
7. Do not allow open foods to contact gel material.

Treatment Rates for All Uses:

- For heavy infestations of cockroaches, apply 3 to 5 spots of ADVION® cockroach gel bait per 10 linear feet.
- For light to moderate infestations of cockroaches, apply 1-3 spots of ADVION® cockroach gel bait per 10 linear feet.
- Each spot of ADVION® gel bait should equal about 0.5 grams (approx. 1/4" diameter)
- For all levels of cockroach infestations, when a bead of ADVION® cockroach gel bait is used, apply a small thin bead that is less than 1/8" wide and approximately 2 inches long.

Indoor Use Directions:

- Infested areas must be carefully inspected to determine overall infestation levels, locations of harborage areas, and most appropriate application points.
- ADVION® Cockroach Gel should be applied as a small spot of material, approximately 0.5 grams (approx. 1/4" in dia.), to areas not able to be contacted by children or pets.
- Several small applications distributed within an area are more effective than 1 or 2 applications of large quantities. In some cases a small thin bead (less than 1/8" wide and 2"

long) may be appropriate such as between construction elements or other cracks and crevices.

- Indoor applications include cracks and crevices along walls or floors, behind or under equipment, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, crawl spaces, and cracks and crevices in cabinets.
- Inspect ADVION® gel bait placements periodically for consumption or attractiveness and reapply as needed.

Applications in Nonfood/Nonfeed Handling Areas:

ADVION® Cockroach Gel Bait is designed for use as a spot or crack and crevice treatment to control cockroaches in residential structures and the non-food /non-feed areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Nonfood/non-feed areas include areas such as garbage rooms, laboratories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food/Feed Handling Establishments.

Applications in Food/Feed Handling Areas:

Application to food/feed areas of food/feed handling establishments may only be made as a crack and crevice treatment only. Apply ADVION® Cockroach Gel Bait directly into cracks and crevices by placing the bait dispenser tip approximately 1/2 inch into cracks, crevices, holes and similar openings where cockroaches are found or are entering.

Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

- Do not apply ADVION® gel bait to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply ADVION® gel bait to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait could be removed by the washing.
- Do not apply ADVION® gel bait to surfaces where the temperature exceeds 120-130°F because this could cause the bait to liquefy and lose effectiveness.
- Examples include, but are not limited to, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.
- Use good application practice to avoid movement of ADVION® gel bait to exposed surfaces used for food preparation.

- If DuPont™ ADVION® gel bait contacts an exposed surface, first remove as much of the gel bait as possible, then wash with soap and water.

Outdoor Use Directions:

A thorough inspection around a structure may reveal areas where cockroaches are gaining access. Attempts should be made to remove the access. ADVION® cockroach gel bait may also be applied as a spot or thin bead (see above) to pest entry sites such as along windows, doors, between construction elements, sewer areas, adjacent trees which harbor cockroaches, along walls, garbage holding areas, or suitable placement site acting as a cockroach harborage. Place baits in such a way as to reduce the potential of subsequent human contact. Inspect ADVION® gel bait placements periodically and apply fresh bait as needed.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in cool, dry place inaccessible to children and pets.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable Container: Do not reuse or refill this container. Offer for recycling if available. Place empty bait dispensers in trash. If partially filled, wrap in newspaper and discard in trash or call your local solid waste authority for disposal instructions.

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DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

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