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# **MONSANTO COMPANY**

Safety Data Sheet Commercial Product

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1. Product identifier

## Ranger PRO® Herbicide

## 1.1.1. Chemical name

Not applicable.

## 1.1.2. Synonyms

None.

## 1.1.3. EPA Reg. No.

524-517

#### 1.2. Product use

Herbicide

## 1.3. Company

MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167

Telephone: 800-332-3111, Fax: 314-694-5557

E-mail: safety.datasheet@monsanto.com

#### 1.4. Emergency numbers

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted). FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

## 2. HAZARDS IDENTIFICATION

#### 2.1. Classification

OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2012) Acute toxicity, inhalation - Category 4

## 2.2. Label elements

## 2.2.1. Signal word

WARNING!

#### 2.2.2. Hazard pictogram/pictograms



#### 2.2.3. Hazard statement/statements

Harmful if inhaled.

## 2.2.4. Precautionary statement/statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

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## 2.3. Appearance and odour (colour/form/odour)

Amber /Liquid / Sweet

#### 2.4. OSHA Status

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910,1200.

Refer to section 11 for toxicological and section 12 for environmental information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Active ingredient

Isopropylamine salt of N-(phosphonomethyl)glycine; {Isopropylamine salt of glyphosate}

## Composition

COMPONENT	CAS No.	% by weight (approximate)
Isopropylamine salt of glyphosate	38641-94-0	41
Other ingredients		59

The specific chemical identity is being withheld because it is trade secret information of Monsanto Company.

## 4. FIRST AID MEASURES

Use personal protection recommended in section 8.

#### 4.1. Description of first aid measures

- **4.1.1. Eye contact:** If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. Immediately flush with plenty of water.
- **4.1.2.** Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- **4.1.3. Inhalation:** If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- **4.1.4. Ingestion:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

- **4.2.1.** Eye contact, short term: May cause temporary eye irritation.
- **4.2.2. Skin contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.3. Inhalation, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.4. Single ingestion:** Not expected to produce significant adverse effects when recommended use instructions are followed.

## 4.3. Indication of any immediate medical attention and special treatment needed

- **4.3.1.** Advice to doctors: This product is not an inhibitor of cholinesterase.
- **4.3.2. Antidote:** Treatment with atropine and oximes is not indicated.

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## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

5.1.1. Recommended: Water, foam, dry chemical, carbon dioxide (CO2)

#### 5.2. Special hazards

## 5.2.1. Unusual fire and explosion hazards

Minimise use of water to prevent environmental contamination.

Environmental precautions: see section 6.

#### 5.2.2. Hazardous products of combustion

Carbon monoxide (CO), phosphorus oxides (PxOy), nitrogen oxides (NOx)

**5.3. Fire fighting equipment:** Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

#### 5.4. Flash point

Does not flash.

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions

Use personal protection recommended in section 8.

## 6.2. Environmental precautions

**SMALL QUANTITIES:** 

Low environmental hazard.

LARGE QUANTITIES:

Minimise spread.

Keep out of drains, sewers, ditches and water ways.

Notify authorities.

#### 6.3. Methods for cleaning up

**SMALL QUANTITIES:** 

Flush spill area with water.

LARGE QUANTITIES:

Absorb in earth, sand or absorbent material.

Dig up heavily contaminated soil.

Collect in containers for disposal.

Refer to section 7 for types of containers.

Flush residues with small quantities of water.

Minimise use of water to prevent environmental contamination.

Refer to section 13 for disposal of spilled material.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

## 7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

## 7.1. Precautions for safe handling

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When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Refer to section 13 of the safety data sheet for disposal of rinse water.

## 7.2. Conditions for safe storage

Minimum storage temperature: -15 °C Maximum storage temperature: 50 °C

Compatible materials for storage: stainless steel, fibreglass, plastic, glass lining Incompatible materials for storage: galvanised steel, unlined mild steel, see section 10.

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the original container.

Partial crystallization may occur on prolonged storage below the minimum storage temperature.

If frozen, place in warm room and shake frequently to put back into solution.

Minimum shelf life: 5 years.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Airborne exposure limits

Components	Exposure Guidelines	
Isopropylamine salt of glyphosate	No specific occupational exposure limit has been established.	
Other ingredients	No specific occupational exposure limit has been established.	

**8.2. Engineering controls:** No special requirement when used as recommended.

#### 8.3. Recommendations for personal protective equipment

- **8.3.1.** Eye protection: If there is significant potential for contact: Wear chemical goggles.
- **8.3.2.** Skin protection: No special requirement when used as recommended. If repeated or prolonged contact: Wear chemical resistant gloves.
- **8.3.3. Respiratory protection:** No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Amber
Odour:	Sweet
Form:	Liquid
Physical form changes (melting, bo	iling, etc.):
Melting point:	Not applicable.
Boiling point:	No data.
Flash point:	Does not flash.
Explosive properties:	No data.
Auto ignition temperature:	No data.
Self-accelerating decomposition temperature (SADT):	No data.

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Oxidizing properties:	No data.
Specific gravity:	1.162 @ 20 °C / 15.6 °C
Vapour pressure:	No significant volatility.
Vapour density:	Not applicable.
Evaporation rate:	No data.
Dynamic viscosity:	No data.
Kinematic viscosity:	No data.
Density:	1.162 g/cm3 @ 20 °C
Solubility:	Water: Completely miscible.
pH:	4.4 - 5.0
Partition coefficient:	log Pow: < 0.00

## 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

#### 10.2. Stability

Stable under normal conditions of handling and storage.

#### 10.3. Possibility of hazardous reactions

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

## 10.4. Incompatible materials

galvanised steel; unlined mild steel; see section 10.; Compatible materials for storage: see section 7.2.

#### 10.5. Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

## 11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Likely routes of exposure: Skin contact, eye contact

## Potential health effects

Eye contact, short term: May cause temporary eye irritation.

Skin contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion: Not expected to produce significant adverse effects when recommended use instructions are followed.

Data obtained on similar products and on components are summarized below.

## Similar formulation

## **Acute oral toxicity**

**Rat, LD50**: 5,108 mg/kg body weight Practically non-toxic.

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#### Acute dermal toxicity

Rat, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic. No mortality.

#### Skin irritation

## Rabbit, 6 animals, OECD 404 test:

Days to heal: 3

Primary Irritation Index (PII): 0.5/8.0

Essentially non irritating.

## Eye irritation

### Rabbit, 6 animals, OECD 405 test:

Days to heal: 3

Slight irritation.

#### Acute inhalation toxicity

Rat, LC50, 4 hours, aerosol: 2.9 mg/L

Other effects: weight loss, breathing difficulty

Practically non-toxic.

#### Skin sensitization

#### Guinea pig, 3-induction Buehler test:

Positive incidence: 0 %

#### N-(phosphonomethyl)glycine; { glyphosate acid}

#### Genotoxicity

Not genotoxic.

#### Carcinogenicity

Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but our expert opinion is that classification as a carcinogen is not warranted.

#### Reproductive/Developmental Toxicity

Developmental effects in rats and rabbits only in the presence of significant maternal toxicity.

Reproductive effects in rats only in the presence of significant maternal toxicity.

#### 12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on similar products and on components are summarized below.

#### Similar formulation

#### Aquatic toxicity, fish

#### Rainbow trout (Oncorhynchus mykiss):

Acute toxicity, 96 hours, static, LC50: 5.4 mg/L

Moderately toxic.

## Aquatic toxicity, invertebrates

#### Water flea (Daphnia magna):

Acute toxicity, 48 hours, static, EC50: 11 mg/L Slightly toxic.

#### **Arthropod toxicity**

## Honey bee (Apis mellifera):

Oral/contact, 48 hours, LD50: > 100 µg/bee

Practically non-toxic.

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## Similar formulation

#### Aquatic toxicity, algae/aquatic plants

## Green algae (Selenastrum capricornutum):

Acute toxicity, 72 hours, static, EbC50 (biomass): 12.4 mg/L

Slightly toxic.

## Green algae (Selenastrum capricornutum):

Acute toxicity, 72 hours, static, NOEC: 6.3 mg/L

#### N-(phosphonomethyl)glycine; { glyphosate acid}

#### **Bioaccumulation**

### Bluegill sunfish (Lepomis macrochirus):

Whole fish: BCF: < 1

No significant bioaccumulation is expected.

### **Dissipation**

#### Soil, field:

Half life: 2 - 174 days Koc: 884 - 60,000 L/kg Adsorbs strongly to soil.

Water, aerobic: Half life: < 7 days

## 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

## 13.1.1. Product

Excess product may be disposed of by agricultural use according to label instructions. Keep out of drains, sewers, ditches and water ways. Recycle if appropriate facilities/equipment available. Burn in proper incinerator. Follow all local/regional/national/international regulations.

#### 13.1.2. Container

See the individual container label for disposal information. Emptied containers retain vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely. Triple or pressure rinse empty containers. Do NOT contaminate water when disposing of rinse waters. Ensure packaging cannot be reused. Do NOT reuse containers. Store for collection by approved waste disposal service. Recycle if appropriate facilities/equipment available. Follow all local/regional/national/international regulations.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

## 14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

14.1. US Dept. of Transportation (DOT) Hazardous Materials Regulations (49 CFR Parts 105-180)

Proper Shipping Name	Not regulated for domestic ground transportation. ()
(Technical Name if	- · ·
required):	

#### 14.2. IMDG Code

Proper Shipping Name	Not regulated for transport under IMO Regulations ()

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	(Technical Name if required):	
14.3. I	ATA/ICAO	
	Proper Shipping Name (Technical Name if required):	Not regulated for transport under IATA/ICAO Regulations ()

## 15. REGULATORY INFORMATION

## 15.1. Environmental Protection Agency

#### 15.1.1. TSCA Inventory

All components are on the US EPA's TSCA Inventory

#### 15.1.2. SARA Title III Rules

Section 311/312 Hazard Categories: Immediate

Section 302 Extremely Hazardous Substances: Not applicable.

Section 313 Toxic Chemical(s): Not applicable.

## 15.1.3. CERCLA Reportable quantity

Not applicable.

## 15.1.4. Federal Insecticide, Fungicide, Rodenticide Act (FIFRA)

This chemical is a pesticide product regulated by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

## CAUTION!

**CAUSES EYE IRRITATION** 

Acute oral toxicity: FIFRA category IV. Acute dermal toxicity: FIFRA category IV. Acute inhalation toxicity: FIFRA category IV.

Skin irritation: FIFRA category IV. Eye irritation: FIFRA category III.

## 16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data. Follow all local/regional/national/international regulations.

Please consult supplier if further information is needed.

In this document the British spelling was applied.

|| Significant changes versus previous edition.

Health Flammability Instability Additional Markings **NFPA** 

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

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Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), STOT SE (Specific Target Organ Toxicity, Single Exposure), STOT RE (Specific Target Organ Toxicity, Repeated Exposure), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.

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End of document



# **ADVION® FIRE ANT BAIT**

Date:

4/2/2015

Replaces:

11/1/2013

## 1. PRODUCT IDENTIFICATION

Product identifier on label: ADVION® FIRE ANT BAIT

Product No.:

A20380A

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:

Not Applicable

Signal Word (OSHA):

Not Applicable

Hazard Statements:

Not Applicable

Hazard Symbols:

**Precautionary Statements:** 

Not Applicable

Other Hazard Statements:

May form combustible dust concentrations in air.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name** 

Common Name

CAS Number

Concentration

Other ingredients

Other ingredients

Trade Secret

99.955%

methyl (4aS)-7-chloro-2,5-dihydro-2-

Indoxacarb Technical

173584-44-6

0.045%

[[(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]amino]carbonyl]in

deno[1,2-e][1,3,4]oxadiazine-4a(3H)-

carboxylate

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



## ADVION® FIRE ANT BAIT

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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 contol 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 treament 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. If water is used to fight fire, dike and collect runoff.

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:

Avoid dust formation.

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. Sweep up material and place in a 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.



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Conditions for safe storage, including any incompatibilities:

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 ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m³ 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: Light yellow granules

Odor: Slight, oily

Odor Threshold: Not Available

pH: Not Available

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: 0.29 - 0.35 g/cm<sup>3</sup>



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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: None

### 10. STABILITY AND REACTIVITY

Reactivity:

Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: Not Available

Incompatible materials:

None known.

Hazardous Decomposition Products: Not Available

## 11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure:

Dermal, Inhalation

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 Rat):

> 5000 mg/kg body weight

Dermal:

Dermal (LD50 Rabbit):

> 5000 mg/kg body weight

Inhalation:

Inhalation (LC50 Female

4.2 mg/l air - 4 hours (applies to the technical

Rat):

material)

Eye Contact:

Non-Irritating (Rabbit)

Skin Contact:

Non-Irritating (Rabbit)

Skin Sensitization:

Animal test did not cause sensitization by skin contact. (Guinea Pig)

## 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® FIRE ANT BAIT

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#### 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 ingredients

No

methyl (4aS)-7-chloro-2,5-dihydro-2-

No

[[(methoxycarbonyl)[4-

(trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate

#### Other Toxicity Information

Not Available

#### **Toxicity of Other Components**

Other ingredients

Not Applicable

#### **Target Organs**

Active Ingredients

Indoxacarb Technical:

Nervous system

**Inert Ingredients** 

Other 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.



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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: Keep out of reach of children.

EPA Registration Number(s):

100-1481

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes:

Acute Health Hazard

Section 313 Toxic Chemicals:

None

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

**HMIS Hazard Ratings** 

1

Health:

Slight 2 Moderate

Minimal

Serious

Flammability: Instability:

Health:

1

Flammability: Reactivity:

3

0

Syngenta Hazard Category: B

Extreme

Chronic



# **ADVION® FIRE ANT BAIT**

Date:

4/2/2015

Replaces:

11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date:

3/5/2013

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Section(s) Revised: 1-16

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