

100-941

10-24-2002

1/15

Cruiser®

Insecticide

A seed treatment product for control of certain insects on barley, corn, cotton, sorghum, and wheat

Active Ingredient:

Thiamethoxam (CAS No. 153719-23-4)..... 47.6%

Other Ingredients: 52.4%

Total: 100.0%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-941

EPA Est. 34704-MS-2

SCP 941B-L1 (DRAFTC) [Bulk, 30 gals., 15 gals., 5 gals.]

SCP 941B-L3 (DRAFTC) [1 gal., 2.5 gals.]

1 gallon

2.5 gallons

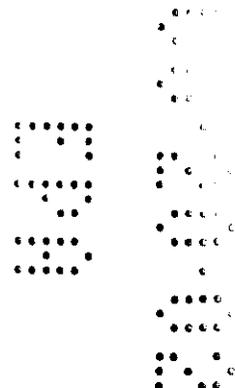
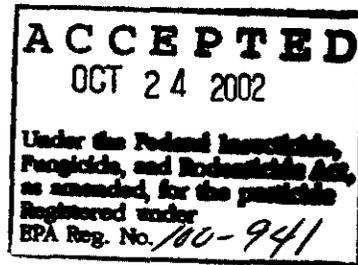
5 gallons

15 gallons

30 gallons

_____ gallons

U.S. Standard Measure



FIRST AID	
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none">• 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 for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through the skin, swallowed, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor.

or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material – Category A (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton).
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Note: Workers must wear long pants, long-sleeved shirts, and chemical-resistant gloves when applying Cruiser as a seed treatment.

Environmental Hazards

This product is toxic to wildlife and highly toxic to aquatic invertebrates.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

- **Surface Water Advisory**

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff (See manual at the following internet address: <http://www.nrcs.usda.gov/water/quality/common/pestmgt/files/core4.html>).

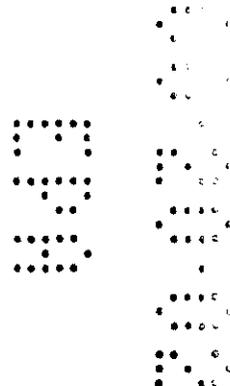
Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

- **Ground Water Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

- **Spray Drift Advisory**

Do not allow this product to drift.



5/15

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

6/15

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material – Category A (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton)
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigor and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigor. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed

treatment. Due to seed quality and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of carry-over seed or propagating material for all crop seed.

STORAGE AND DISPOSAL

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

Storage

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

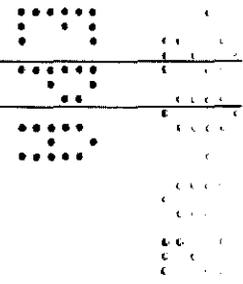
Triple rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

GENERAL INFORMATION

Cruiser is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Cruiser controls certain chewing and sucking insects through contact and ingestion. When rate ranges are given, use higher rate when insect pressure is expected to be high.

MIXING PROCEDURES

Important: Always recirculate Cruiser thoroughly before using.



8/15

Apply Cruiser as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of insect or disease control. Thoroughly mix the recommended amount of Cruiser into the required amount of water for the slurry treater and dilution rate to be used. The typical density of Cruiser is 10.5 lbs./gal. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Allow seed to dry before bagging.

Federal law requires that bags containing treated seed shall be labeled with the following information: "This seed has been treated with thiamethoxam insecticide." Do not use for feed, food, or oil purposes. Store away from feed and foodstuffs. Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.

CROP USE DIRECTIONS

Resistance Management

Cruiser belongs to the neonicotinoid class of chemistry, which is not known to be cross-resistant to any other class of insecticide. However, insect pests are known to develop resistance to products used repeatedly. Because resistance development can not be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. The following label restrictions must be followed to reduce the chance of resistance development:

- With the exception of cotton, do not apply a neonicotinoid insecticide to any crop which has been previously treated with a Cruiser seed treatment.
- For cotton, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with Cruiser.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

Barley

To provide early season protection of seedlings against injury by bird cherry-oat aphids, English grain aphid, greenbug, Russian wheat aphid, Hessian fly and wireworm, and to reduce potential spread of barley yellow dwarf virus due to aphid vectors, apply Cruiser at 0.75-1.33 fl. oz. / 100 lbs. of seed.

9/15

Corn (Field, Pop, Seed and Sweet Corn)

NOTE: If corn seed to be treated with Cruiser has existing infestations of stored grain pests, it is recommended that the seed be fumigated prior to treating with Cruiser and bagging.

Consult your Syngenta Seed Treatment representative for recommendations on slurry additives to use during application of Cruiser.

Follow planter manufacturer recommendations for use of talc, graphite, or other hopper box additives at planting.

Use Maxim XL as the broad spectrum seed treatment fungicide with Cruiser applications on corn.

Field Corn, Pop Corn, Seed Corn, Sweet Corn

To provide early season protection of seedlings against injury by wireworm, seed corn maggot, southern corn leaf beetle, chinch bug, flea beetle, white grub, and suppression of cutworm, apply Cruiser at 1.28 - 5.1 fl. oz. / 100 lbs. of seed. Do not apply less than 0.125 mg. thiamethoxam per kernel or more than 0.8 mg. thiamethoxam per kernel for use against these pests.

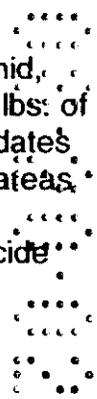
Field Corn Only

To provide corn rootworm protection in light to moderate infestations and suppression of cutworm, apply Cruiser at 5.1 – 9.0 fl. oz. / 100 lbs. of seed. Do not apply less than 1.125 mg. thiamethoxam per kernel and do not exceed 1.4 mg. of thiamethoxam per kernel.

NOTE: When treated according to the above directions for post-planting protection against listed pests, Cruiser will also provide protection during post treatment storage of the seed against damage from the following insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

Cotton (Delinted Only)

To provide early season protection of seedlings against injury by cotton aphid, western flower thrips, and tobacco thrips, apply Cruiser at 7.75 fl. oz. / 100 lbs. of seed. Plant Cruiser-treated cotton seed based on recommended planting dates and soil temperatures made by your state agricultural extension agent. In areas that have a history of high thrips pressure or when cotton is grown in North Carolina or Virginia, use Cruiser seed treatment followed by a foliar insecticide spray when cotton is between the 1st and 3rd leaf stage.



10/15

Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with Cruiser.

Sorghum

To provide early season protection of seedlings against injury by corn leaf aphid, yellow sugarcane aphid, greenbug, chinch bug, seed corn maggot, wireworm, and fire ants, apply Cruiser at 5.1 fl. oz. / 100 lbs. of seed.

Wheat

To provide early season protection of seedlings against injury by bird cherry-oat aphids, English grain aphid, greenbug, Russian wheat aphid, Hessian fly and wireworm, and to reduce potential spread of barley yellow dwarf virus due to aphid vectors, apply Cruiser at 0.75-1.33 fl. oz. / 100 lbs. of seed.

Rotational Crops

Treated areas may be replanted immediately following harvest or as soon as practical following the last application with any crop on this label or to cucurbit vegetables, fruiting vegetables, tuberous and corn vegetables, and tobacco. For all other crops, a 120-day plantback interval must be observed.

Cruiser® and the Syngenta logo are trademarks of a Syngenta Group Company
U.S. Patent Nos. 5,852,012 and 6,022,871

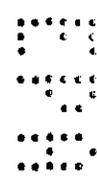
©2002 Syngenta

For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481.

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 941B-L1 (DRAFTC) [Bulk, 30 gal., 15 gal., 5 gal.]
SCP 941B-L3 (DRAFTC) [1 gal., 2.5 gal.]

Z:LABELC-W/CRU941B-L1 (DRAFTC) – lg – 08/16/02



12/15

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • 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 for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.



13/15

Environmental Hazards

This product is toxic to wildlife and highly toxic to aquatic invertebrates.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

- **Surface Water Advisory**

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff (See manual at the following internet address:

<http://www.nrcs.usda.gov/water/quality/common/pestmgt/files/core4.html>).

Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

- **Ground Water Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

- **Spray Drift Advisory**

Do not allow this product to drift.

Container Disposal

Triple rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

14/15

Cruiser® and the Syngenta logo are trademarks of a Syngenta Group Company
U.S. Patent Nos. 5,852,012 and 6,022,871

©2002 Syngenta

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 941B-L3 (DRAFTC) [1 gal., 2.5 gal.]

Z:LABELC-W/CRU941B-L1 (DRAFTC) – lg – 08/16/02

15/15

Chron

12/03/01 – Syngenta format, revised cotton directions for use; revised First Aid per PR Notice 2001-1; modified glove statement; revised container disposal statement to remove references to burning; added “Crop Use Directions” heading; added base label.

3/6/02 – Revised First Aid and PPE per EPA tox review.

8/12/02 – Added corn seed treatment use directions; added resistance management language, added minimum time for application of neonicotinoid insecticide to treated cotton seed, added change to Environmental Hazard language requested by EPA.

