

2024-5324  
2024-11-01

**SEQUENCE**

**GROUP**

**U 12**

**FUNGICIDE**

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**SUSPENSION**

For control of scab on apples and pears, peach leaf curl on peaches and nectarines, and cherry leaf spot on sweet and sour cherries.

**COMMERCIAL (AGRICULTURAL)**



**DANGER – POISON**

**CORROSIVE TO THE EYES, SKIN IRRITANT**

**READ THE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

ACTIVE INGREDIENT: Dodine 400 g/L  
Contains 1,2-benzisothiazolin-3-one at 0.015% as a preservative

REGISTRATION NO. 35332 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L- 1000 L

**Sharda Cropchem Limited**  
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**FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA:**

1-866-303-6952 or +1-651-603-3432.

**FOR 24-HOUR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure, or accident)  
CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.**

SEQUENCE is an effective fungicide for the control of scab on apples and pears, peach leaf curl on peaches and nectarines, and cherry leaf spot on sweet and sour cherries.

SEQUENCE has both protectant and eradicant properties, and has some local systemic activity. Excellent redistribution to new growth, if rain occurs after spray application, provides added protection.

### **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

### **STORAGE**

Store this product away from food or feed.

### **DISPOSAL**

#### **For recyclable containers:**

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

#### **For returnable containers:**

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### **For refillable containers:**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

#### **Disposal of unused, unwanted product:**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

## DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

### **Apples and Pears:**

DO NOT apply more than 10.2 kg a.i./ha/year.

DO NOT apply more than 2 applications per year at a rate of 2.2 kg a.i./ha/application.

DO NOT apply more than 4 applications per year at a rate of 1.46 kg a.i./ha/application.

DO NOT apply less than 7 days from the last application. DO NOT apply within 7 days of harvest.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Sharda Cropchem Limited under the User Requested Minor Use Label Expansion program. For these uses, Sharda Cropchem Limited has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

### **DIRECTIONS FOR USE:**

Diseases controlled	Peach leaf curl ( <i>Taphrina deformans</i> ) (on peaches and nectarines) Cherry leaf spot ( <i>Blumeriella jaapii</i> ) (on sweet and sour Cherries)
Site (Crop)	Peaches and nectarines Cherries (sweet and sour)
Method of Application	Foliar, broadcast application, airblast spray equipment
Rate of Application and Spray Volume (include adjuvant rate, if being proposed)	Peaches and nectarines: 1.8-3.5 L/ha in 1000 L water/ha Cherries (sweet and sour): 2.0 L/ha in 1000 L water/ha
Number of Applications	Peaches and nectarines: 2 Cherries (sweet and sour): Maximum of 4
Application Interval	Do not apply less than 7 days from the last application
Application Timing	If leaf curl was moderate to severe the previous season, apply one month before buds swell in spring and again just prior to bud swelling, otherwise apply one application just prior to bud swelling. Use the higher rate under high disease pressure. For cherry leaf spot, apply at petal fall or when leaves 1 <sup>st</sup> unfold, repeat if necessary. Post-harvest applications in the field are permitted to help prevent leaf spot defoliation also.
Pre-Harvest Interval	60 days (peaches/nectarines); 7 days (cherries)

### **Airblast application:**

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**DO NOT** apply by air.

### **Spray Buffer Zones:**

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Airblast	Apple and Pear	Early growth stage	65	55	25	15	2
		Late growth stage	55	45	15	10	1
	Cherry, peach, nectarine	Early growth stage	55	45	15	5	1
		Late growth stage	45	35	5	3	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

**MIXING:** SEQUENCE should be added directly to the spray tank half filled with water. Keep agitator running during filling and spraying.

**SPRAY VOLUME:** Note that rates of application are given in litres per hectare. The spray volume per hectare is dependent on the applicator's equipment.

## TANK MIXING

This product may be tank mixed with (a fertilizer, a supplement, or with) registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Sharda Cropchem Limited at 1-844-810-5720 for information before applying any tank mix that is not specifically recommended on this label.

### APPLICATION:

**Apples – Scab (*Venturia inaequalis*):** Apply SEQUENCE at the rate of 1.75 - 3.65 L/ha from green tip through to bloom. Apply at 7 day intervals or as needed to maintain scab control. Use the high rate for high disease pressure and the low rate for low disease pressure.

Use 3.65 L/ha from petal fall through to first cover spray. After this stage, scab protection can be maintained with spray applications of fungicides as recommended in provincial spray calendars.

**“AFTER INFECTION” APPLICATIONS:** After an infection period has occurred, use 5.28 L/ha of SEQUENCE, following a rain, from silver tip through to calyx stage and in later cover sprays as needed. While timing of the spray may vary considerably depending on temperatures, it is recommended that application be made within 36 hours from the beginning of the rain or wet period that caused the infection. Do not apply within 7 days of harvest. Do not feed pomace of treated apples to livestock.

### TANKMIXES - APPLES:

**Use SEQUENCE at 1.75 – 3.65 L/ha with 2.52 kg. a.i. mancozeb/ha (3.36kg/ha of Manzate Pro-Stick Fungicide or Penncozeb 75DF Fungicide) from green tip to bloom. Follow the most restrictive directions on the tank-mix partner labels.**

**Pears – Scab (*Venturia pyrina*):** Use 5.28 L/ha of SEQUENCE at 7 day intervals or as needed to maintain scab control from pre-bloom through first cover. Use 3.65 L/ha in subsequent cover sprays as needed. Do not apply within 7 days of harvest. **Note:** In areas where SEQUENCE does not control pear scab, use an alternate fungicide recommended for scab control.

**NOTE:** For use on apples and pears, consult local agricultural authorities for proper timing of sprays. In areas where SEQUENCE does not control apple or pear scab, use alternate fungicides recommended for scab control.

**CAUTION:** Do not feed crop refuse to livestock. Do not graze cover crops in treated orchards.

**FRUIT SAFETY:** Fruit colour and finish on most apple varieties sprayed with SEQUENCE at recommended dosage has frequently been outstanding. Freezing, or near freezing temperatures, particularly when accompanied by slow drying conditions may injure or pre-dispose the fruit to chemical injury. Do not apply SEQUENCE immediately before, during or immediately after occurrence of such conditions.

**COMPATIBILITY:** SEQUENCE is not compatible with lime. Consult each label for compatibility prior to use with other products in a tank mix.

**SEQUENCE FUNGICIDE WITH OIL INSECTICIDES:** Tank-mix combinations of SEQUENCE and Superior 70 Oil and Bartlett Superior 70 Oil Emulsifiable Insecticide can be used effectively as a delayed dormant application on apples.

**PROCEDURE FOR TANK-MIXING SEQUENCE WITH THE LISTED OIL INSECTICIDES:**

Maintain continuous agitation from the time SEQUENCE is added to the spray tank until mixture is sprayed out:

1. SEQUENCE should be added to the tank when one-quarter to one-half full with water and allowed to mix thoroughly.
2. If insecticide is used, add as tank is filling.
3. Add oil last when tank is nearly three-quarters full.

**DILUTE AND CONCENTRATE SPRAY:** SEQUENCE may be used effectively in dilute or concentrate sprays when applied properly. However, concentrates higher than 5X are not suggested. Fruit and foliage should not be excessively drenched with dilute sprays. Avoid heavy deposits when using concentrate sprays.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.

**Airblast or mist blower application:** DO NOT spray above plants to be treated.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. **DO NOT** apply by air. Store in cool, dry, ventilated place, away from feeds and foods. Keep away from heat, fire and sparks. CORROSIVE to the eye; DO NOT get in eyes. Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin or clothing. Causes skin irritation; DO NOT get on skin. Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, protective eyewear (goggles or face shield), chemical-resistant gloves made of waterproof material, socks and chemical-resistant footwear during mixing, loading, open-cab application, clean-up and repair. Gloves are not required during application within a closed cab. In addition, wear chemical-resistant headgear during open-cab airblast application and for handheld application, when applying above waist height, including overhead. Chemical-resistant headgear includes chemical-resistant Sou'Wester hat, chemical-resistant rain hat or large-brimmed waterproof hat and hood with sufficient neck protection. Wash thoroughly after handling and before eating, drinking or smoking. Wash contaminated clothing with soap and hot water before reuse. Avoid inhaling/breathing dust or spray mist. Do not contaminate food or feed.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Follow manufacture's instructions for cleaning/maintaining personal protective equipment. If there are no such instructions for washables, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Sharda Cropchem Limited.

**DO NOT** apply using handheld mist blower/airblast or handheld fogging equipment.

#### **FIRST AID:**

**IF SWALLOWED:** Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**IF INHALED:** 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 centre or doctor for further treatment advice.

**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 centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### **TOXICOLOGICAL INFORMATION**

Treat symptomatically. The formulation is slightly toxic when inhaled. It is corrosive to the eye and causes skin irritation.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, SEQUENCE contains a Group U12 fungicide. Any fungal population may contain individuals naturally resistant to SEQUENCE and other Group U12 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of SEQUENCE or other Group U12 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify Sharda Cropchem Limited if reduced sensitivity of the pathogen to SEQUENCE is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

For further information and to report suspected resistance, contact Sharda Cropchem Limited at 1-844-810-5720.

### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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