

The background of the entire image is a detailed illustration of several mites. The mites are depicted with brown, segmented bodies and numerous thin, black legs. They are shown in various orientations, some facing forward and others in profile. The illustration uses fine lines to define the mites' anatomy, including their legs and body segments. The overall style is that of a technical or scientific drawing, but with a slightly stylized, illustrative quality. The mites are scattered across the frame, with some appearing larger and more prominent than others.

Excellent mite control with long-lasting effect

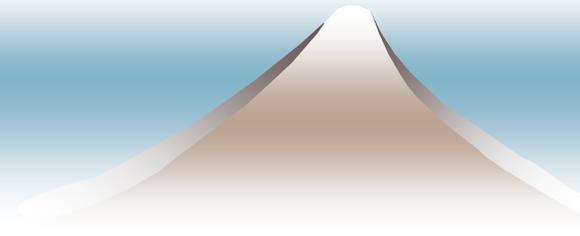
Acaricide

NISSORUN[®]

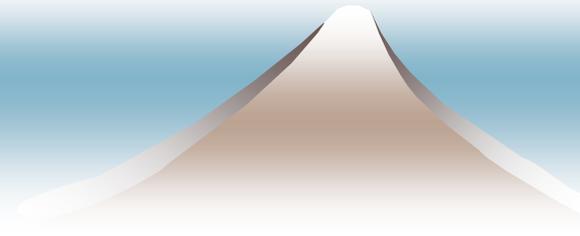
NIPPON SODA CO.,LTD.

1. Characteristics

1. **Broad acaricidal spectrum.**
2. **Excellent ovicidal, larvicidal and nymphicidal activity.**
3. **Excellent effect on eggs laid by female adults applied with **NISSORUN**.**
4. **Long-lasting effect.**



- 5. No cross-resistance to mites tolerant to conventional acaricides.**
- 6. No phytotoxicity on most crops.**
- 7. No adverse effect on beneficial insects and natural enemies.**
- 8. Compatible with many kinds of pesticides.**
- 9. Good translaminar action but no systemic on plants.**



2. Target mites

1) *Tetranychus*

(1) Two-spotted spider mite

Tetranychus urticae



(2) Carmine spider mite

Tetranychus cinnabarinus



2) *Panonychus*

(1) European mite

Panonychus ulmi



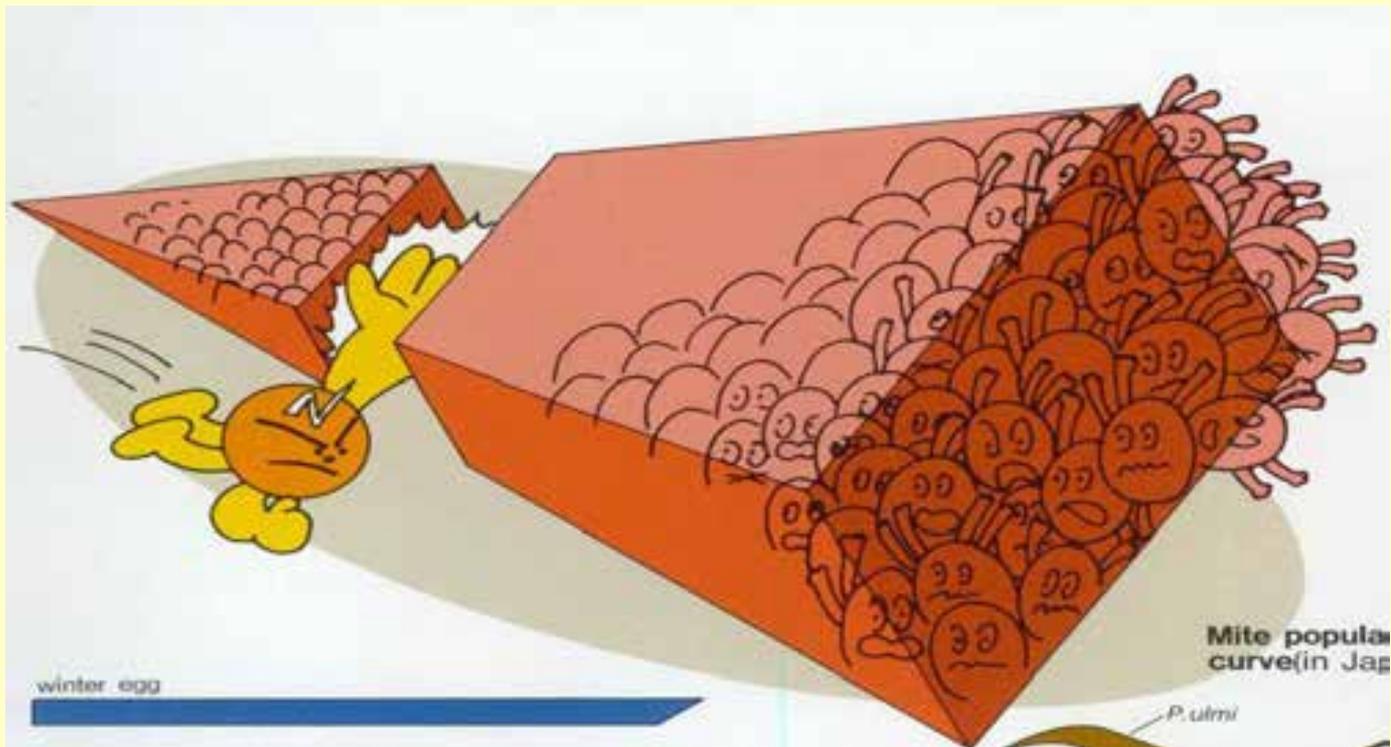
(2) Citrus red mite

Panonychus citri



3. Recommendations for better usage

1) Spray prior to adult mite population buildup.
IF the adult mite population is already buildup,
NISSORUN tank-mixed with contact miticide
reduces the adult population rapidly.



2) Spray the whole tree to run off.



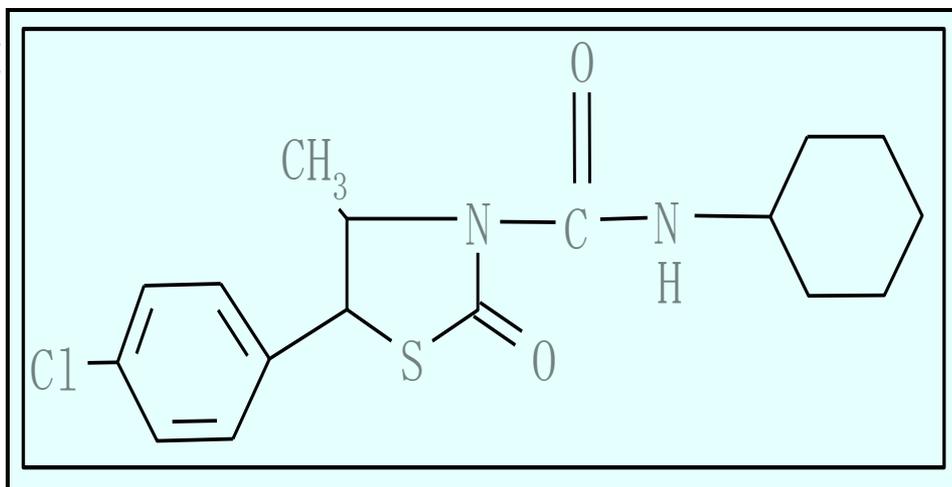
3) Spray maximum twice per year to avoid mite resistance.

4. Physical and chemical properties

1) Active ingredient

Common name: hexythiazox (ISO)

Structural Formula:



2) 10% WP formulation

Appearance: Pale brown powder

Odor: Faint odor similar to lignin

5. Toxicity

1. Acute toxicity (Technical)

Species	Sex	LD ₅₀ (mg/kg body weight)				
		Oral	Subcut- aneous	Intra- peritoneal	Dermal	Inhalation (4hrs)
Rat	♂ □ C □ ♀	>5,000	>5,000	>5,000	>5,000	-
Mouse	♂ □ C □ ♀	>5,000	>5,000	>5,000	-	-
Rat	♂ □ C □ ♀	>5,000	>5,000	-	-	> 2.0mg/l
Mouse	♂ □ C □ ♀	>5,000	-	-	-	-
Dog	♂ □ C □ ♀	>5,000	-	-	-	-

2. Acute toxicity (10%WP formulation)

Species	Sex	LD ₅₀ (mg/kg body weight)		
		Oral	Dermal	Inhalation (4hrs)
Rat	♂ ♀	>5,000	>5,000	>2.1mg

3. Fish toxicity (Technical)

Carp	TLm (48hr)	3.7ppm
Trout	TLm (48hr)	>300ppm
Water flea	TLm (48hr)	>300ppm

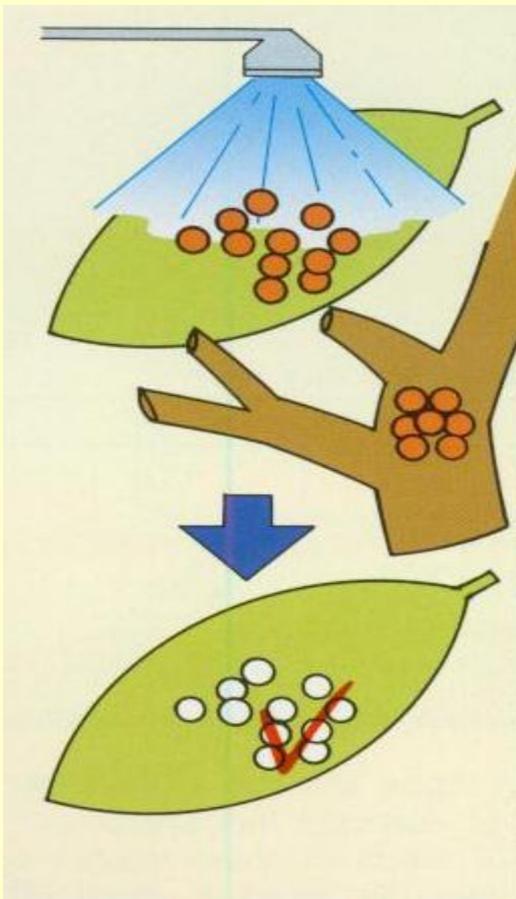
4. Bee toxicity

Honeybee LD₅₀ (72hr) 200 µg/bee

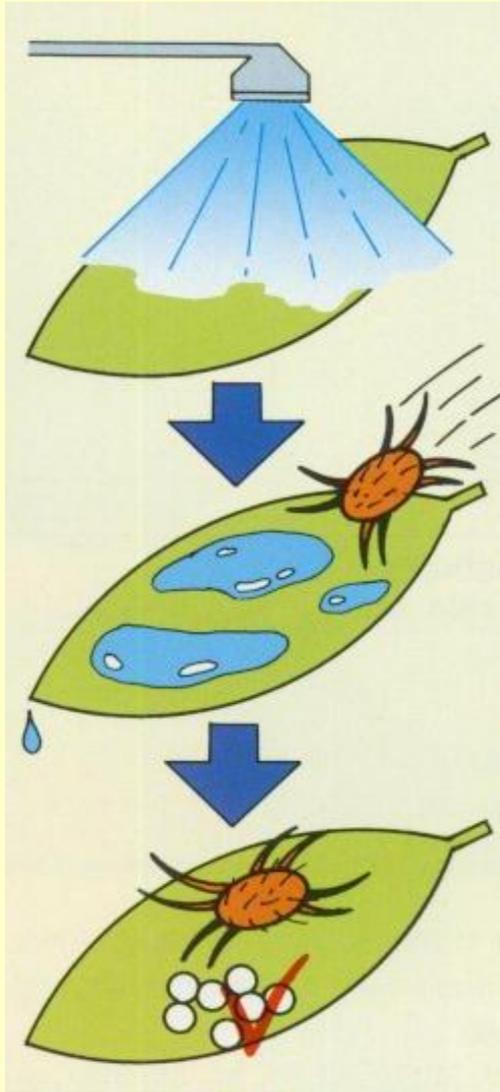
6. NISSORUN's action

1) Ovicidal effects

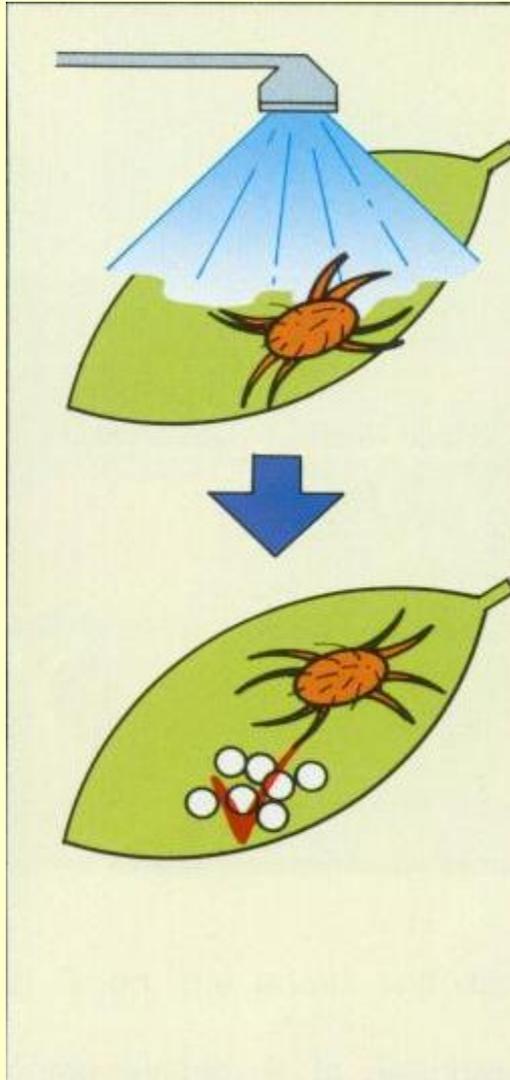
NISSORUN has three types of activity against eggs.



(1) If **NISSORUN** is sprayed directly on the eggs or overwintering eggs, the eggs will not hatch.



(2) If untreated adult mites move onto leaves sprayed with **NISSORUN** and lay eggs, none of the eggs will hatch.



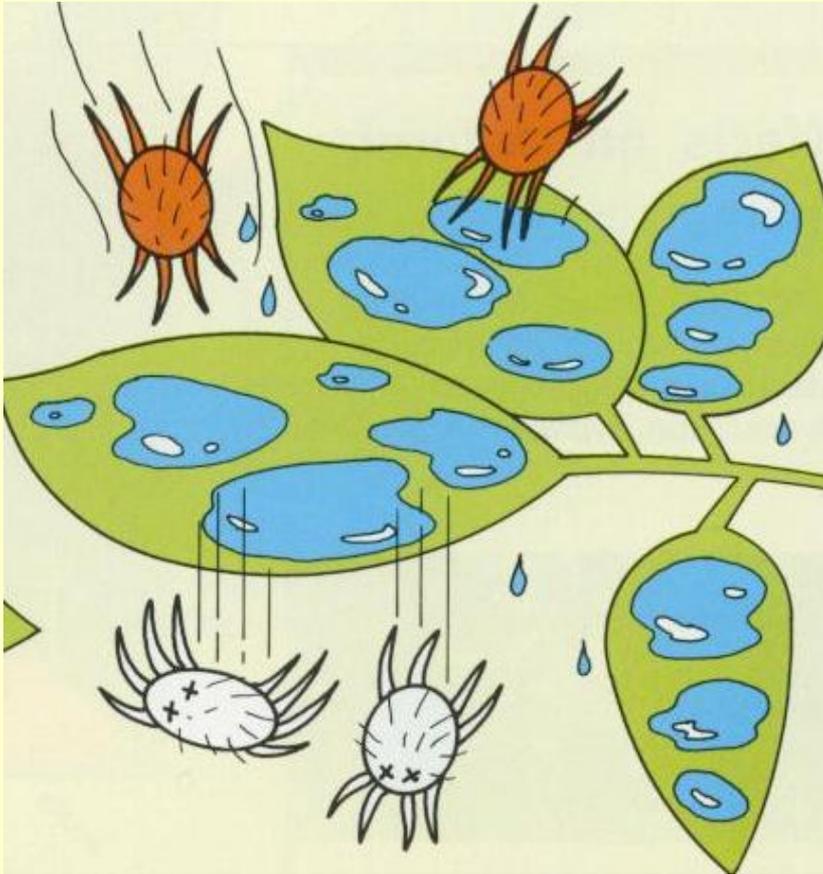
(3) If adult mites come into direct contact with **NISSORUN** and then they move onto other leaves and lay eggs, none of the eggs will hatch.

2) Larvicidal and nymphicidal effects

NISSORUN has two types of activity on larvae and nymphs.

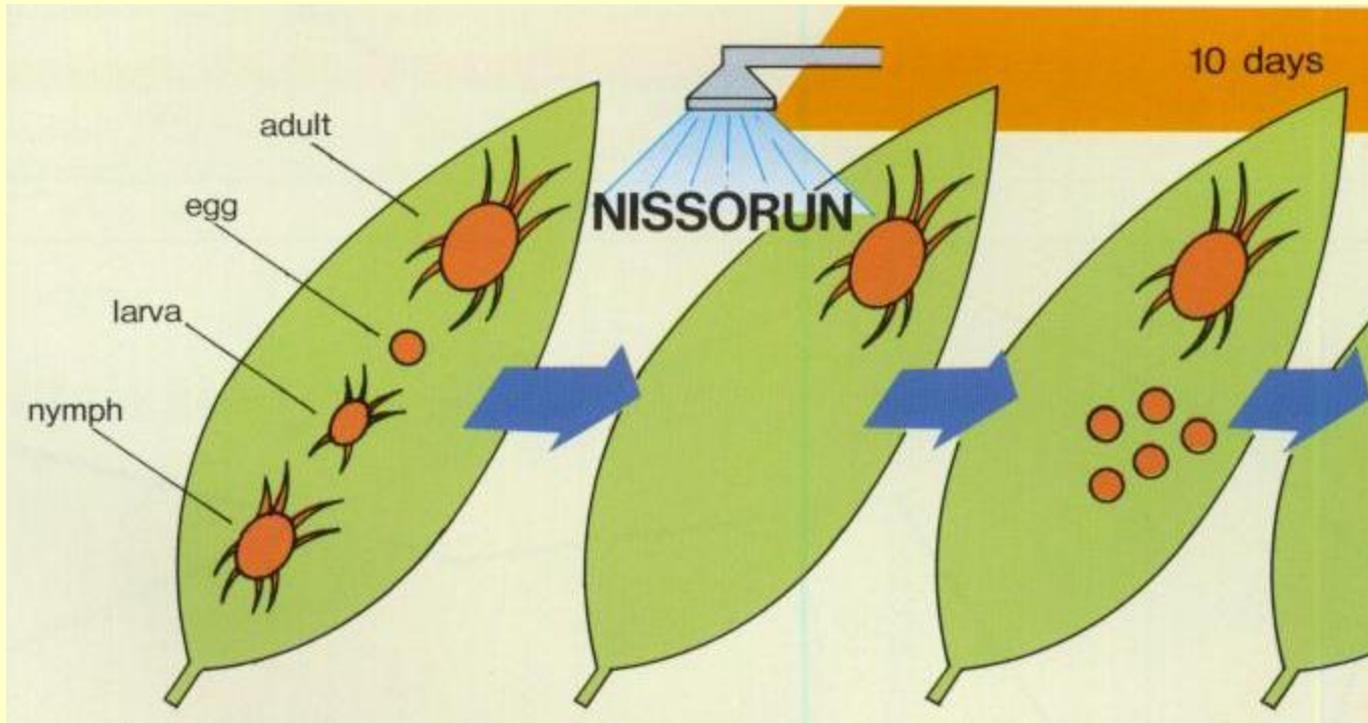


(1) If nymphs come into direct contact with **NISSORUN**, they will die.



(2) Larvae and nymphs will also die, when they come into contact with leaves sprayed with **NISSORUN**.

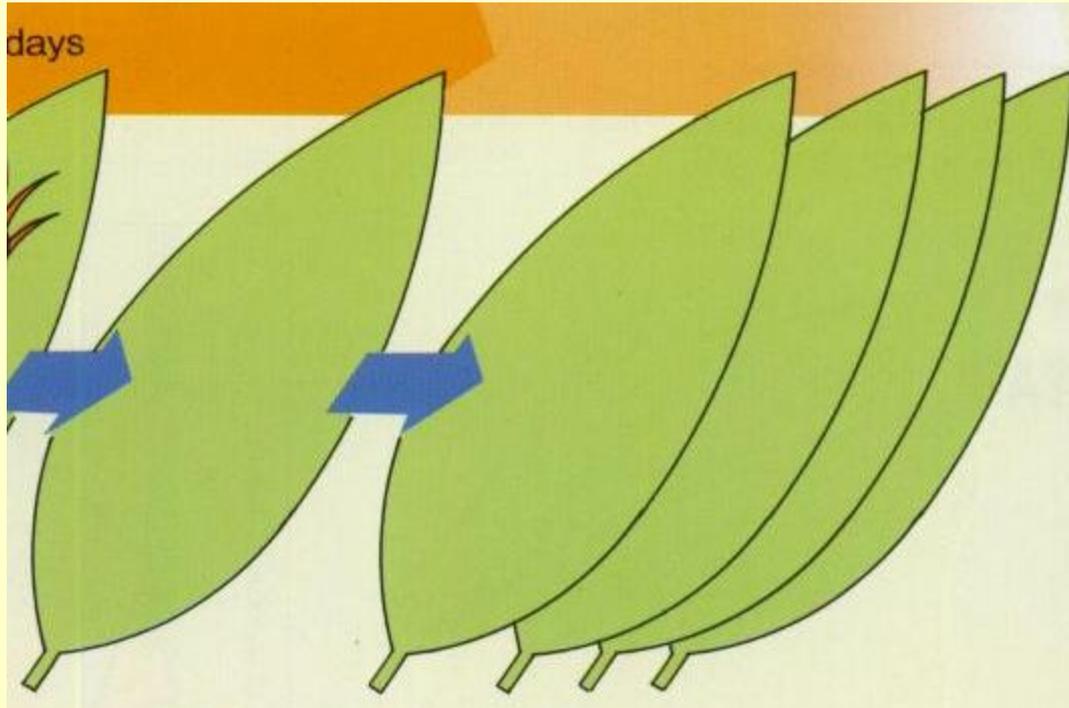
7. NISSORUN's basic activity



1) Spider mites (adult, nymph, larva and egg) infest a leaf.

2) Nymphs, larvae and eggs are controlled by applying **NISSORUN**. But **NISSORUN** is not effective to adult mites.

3) Adult survivors continue to lay eggs normally.



4) **None of the eggs hatch.**
Then the adult dies a
natural death after **7-10**
days

5) **NISSORUN** will continue to
work effectively